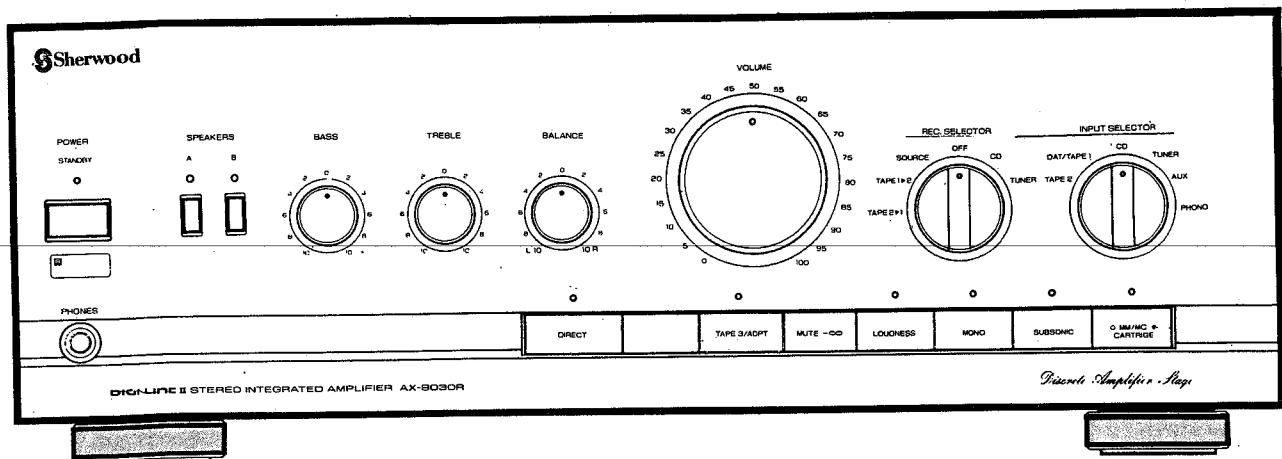


SERVICE MANUAL

AX-9030R/9035R STEREO INTEGRATED AMPLIFIER



CONTENS

Safety Precautions.....	2	Mechanical Parts List.....	16
Specifications.....	3	Printed Circuit Boards.....	17
Circuit Description.....	4	Electrical Parts List.....	23
Block Diagrams.....	6	IC's Lead Identification & Internal Diagram.....	29
Wiring Diagram.....	9	Transistors Lead & Identification.....	32
Troubleshooting.....	11	Schematic Diagrams.....	33
Exploded Views.....	13		

Sherwood

SAFETY PRECAUTIONS

WARNING

Before servicing this unit, familiarize yourself with the following precautions:

1. Many electrical and mechanical parts in this chassis have special safety characteristics that often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by Δ in the schematic diagram and the parts list.

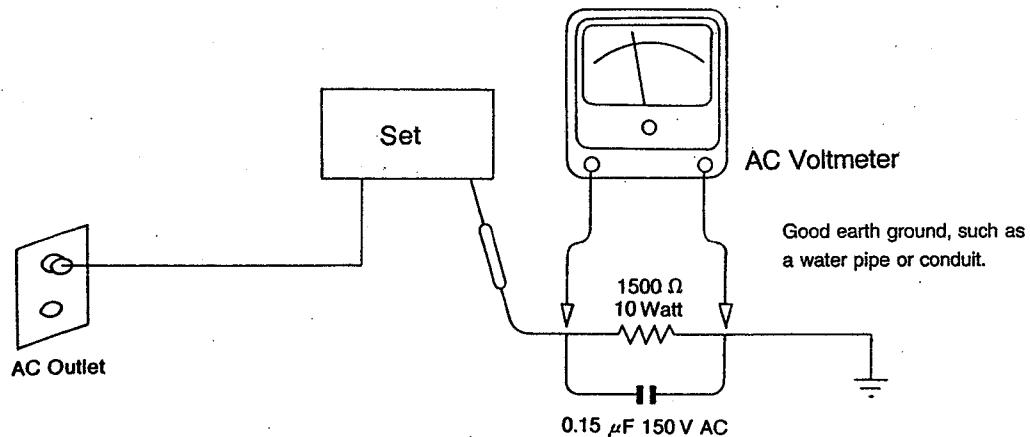
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

2. Before returning the set to the customer, always do an AC leakage current check on the exposed metal parts of the cabinet, such

as terminals, screw heads, and metal overlays, to be sure the set is safe to operate. danger of electrical shock.

Plug the AC line cord directly into a 120 V AC outlet (120 V AC version only). (Do not use a line isolation transformer during this check.) Be sure your AC voltmeter has a sensitivity of 5000 Ω per volt or greater. Then connect a 1500 Ω 10 watt resistor, paralleled by a 0.15 μ F 150 V AC capacitor, between a known good earth ground (such as a water pipe, or conduit) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of a 1500 Ω resistor and a 0.15 μ F capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 V RMS. This corresponds to 0.2 mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

At 5000 Ω per volt or greater sensitivity, the reading should not exceed 0.75 V.



Place the probe on each exposed metallic part.

SPECIFICATIONS

Amplifier	Unit	Nominal	Limit
RMS output power at distortion below 0.03 % 20 Hz - 20 kHz both channels driven at 8 Ω	W	110	105
at distortion below 0.03 % 1 kHz both channels driven at 8 Ω	W	120	115
Inter-modulation distortion at 105 W output 60 Hz : 7 kHz=4 : 1 SMPTE both channels driven at 8 Ω	%	0.007	0.01
Harmonic distortion at 105 W output: 20 Hz 1 kHz 20 kHz	%	0.005 0.005 0.005	0.009 0.009 0.002
Frequency response at AUX 8 Ω load, 1 W output -3 dB	Hz	16 - 80	20 - 75
Input sensitivity at 105 W output 8 Ω 1 kHz: PHONO MC PHONO MM AUX	mV	0.11 2.5 150	± 0.1 ± 0.5 ± 30
Tone control: BASS, 100 Hz TREBLE, 10 kHz	dB	± 8 ± 8	± 2 ± 2
Phono amp overload at 0.7 % THD, 1 kHz	mV	180	160
Loudness compensation at -30 dB volume: 100 Hz 10 kHz	dB	+5 +3	± 2 ± 1.5
Channel separation at AUX: 100 Hz 1 kHz 10 kHz	dB	74 74 60	70 70 55
Signal to noise ratio(WTD/UNWTD): PHONO MC PHONO MM AUX	dB	70/60 76/70 96/90	60/57 75/68 93/87
Crosstalk at 1 kHz: AUX \Rightarrow MONITOR AUX \Rightarrow PHONO	dB	88 68	85 66

General

Speaker load impedance	4~16 Ω
Power consumption:	900 W
Dimensions (H \times W \times D)	160 (H) \times 440 (W) \times 397.5 (D)
Weight	20 kg

Power requirements:

- A : 120 V 60 Hz for American/Canadian version
- B : 120/220 V, 60/50 Hz for multi voltage area version (switchable)
- D : 230 V, 50 Hz for German and General European version
- E : 240 V, 50 Hz for UK/Australia version
- G : 220 V, 50 Hz for Other area

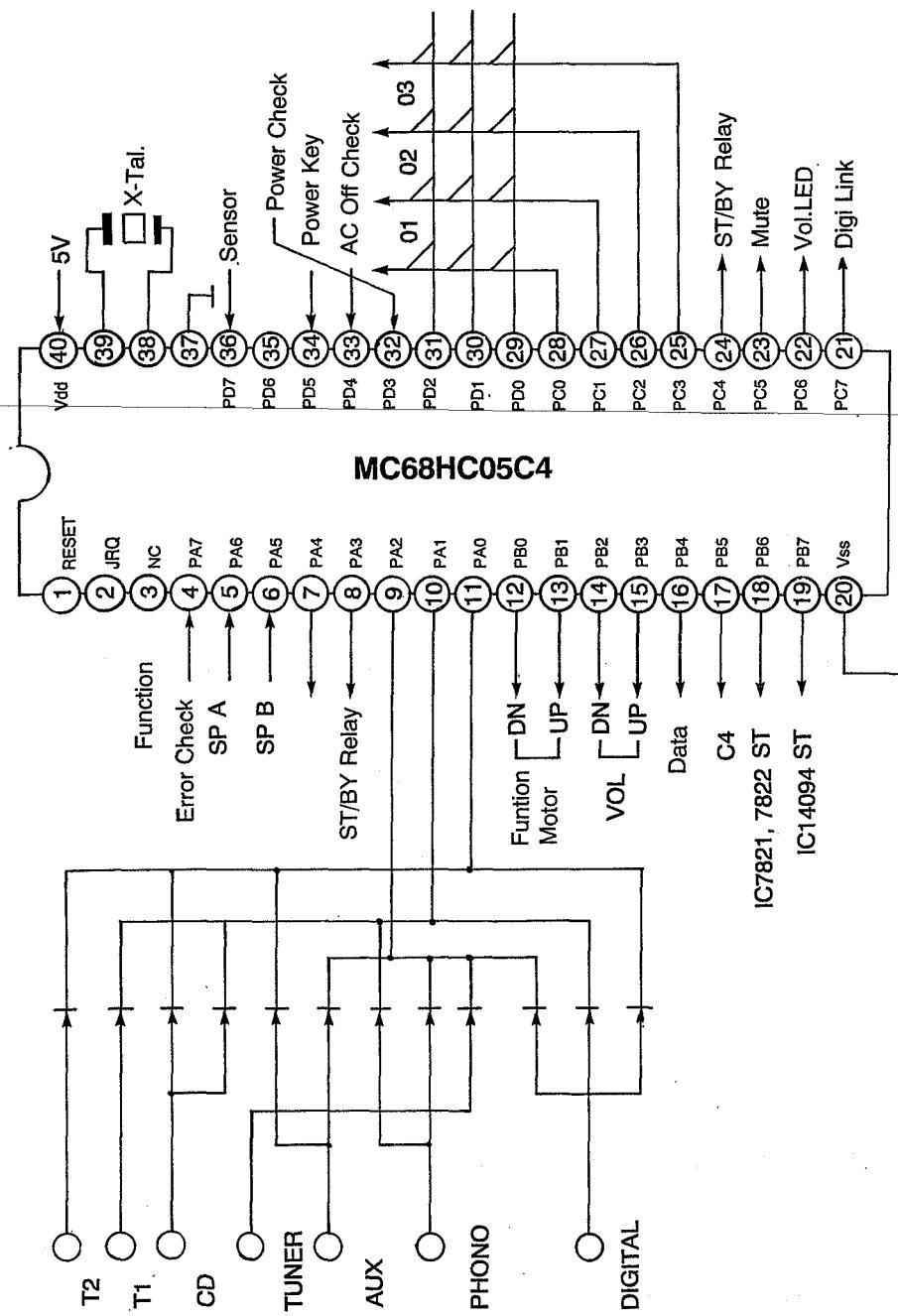
Note :

1. Nominal specs represent the design specs. All units should be able to approximate these-some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable: in no case should a unit fail to meet limit specs.
2. This manual is based on the General European (D) standard, and provides information on regional circuit modification through the use of alternate schematic diagrams or wiring diagrams, and information on regional component variations through the use of parts lists. Design and specifications subject to change without notice.

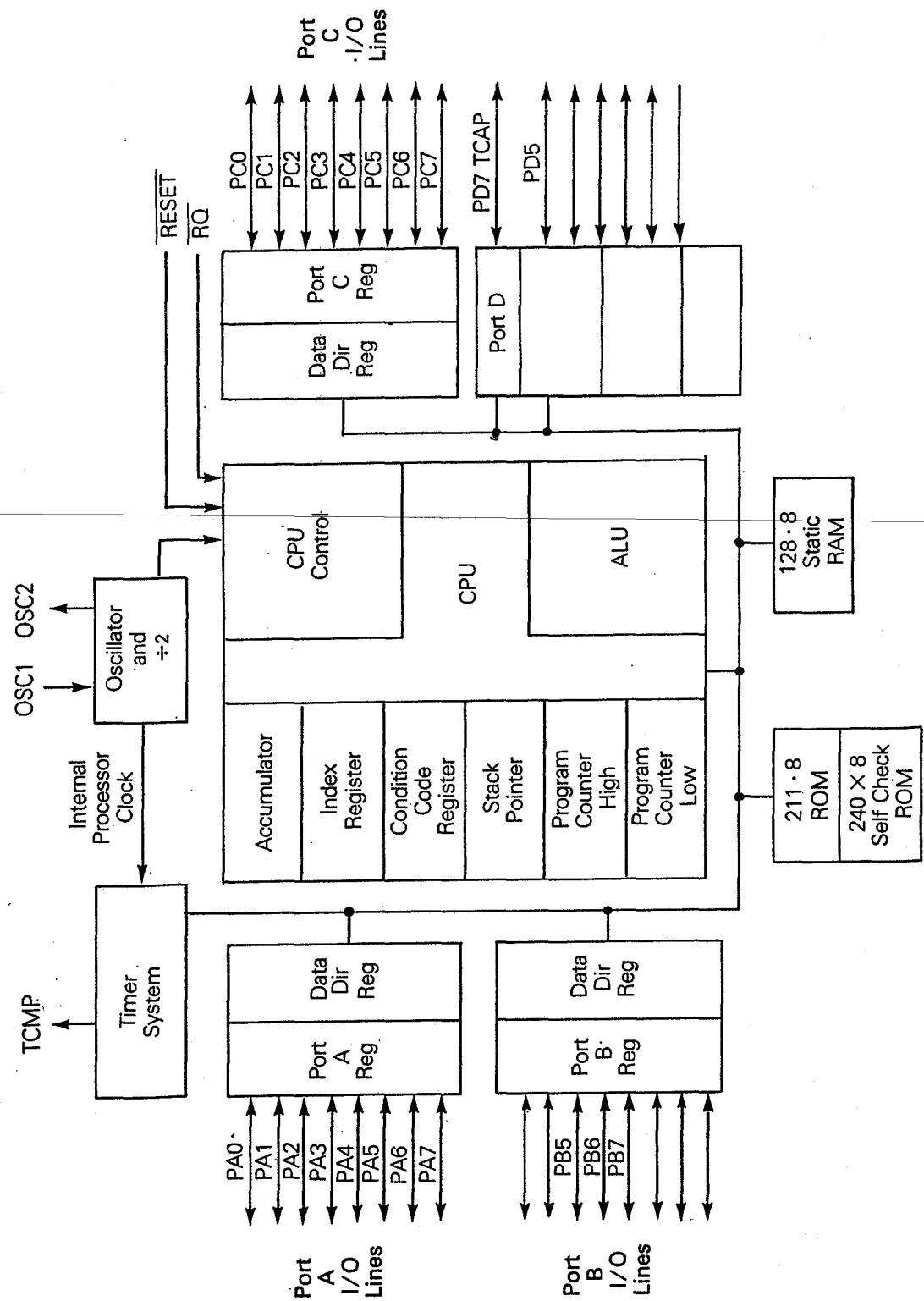
CIRCUIT DESCRIPTION

IC601: MC68HC05C4 (LSC412224P DWP114) 8-bit MICROPROCESSOR

Pin Connection

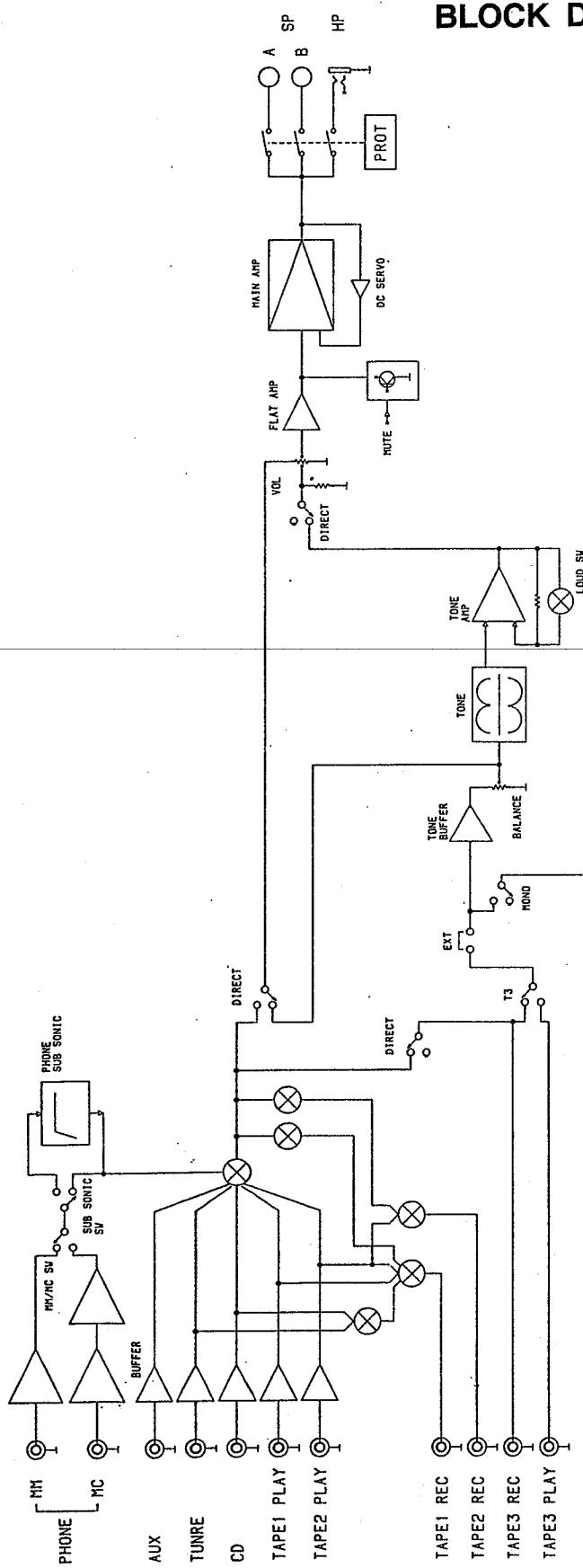


Block Diagram

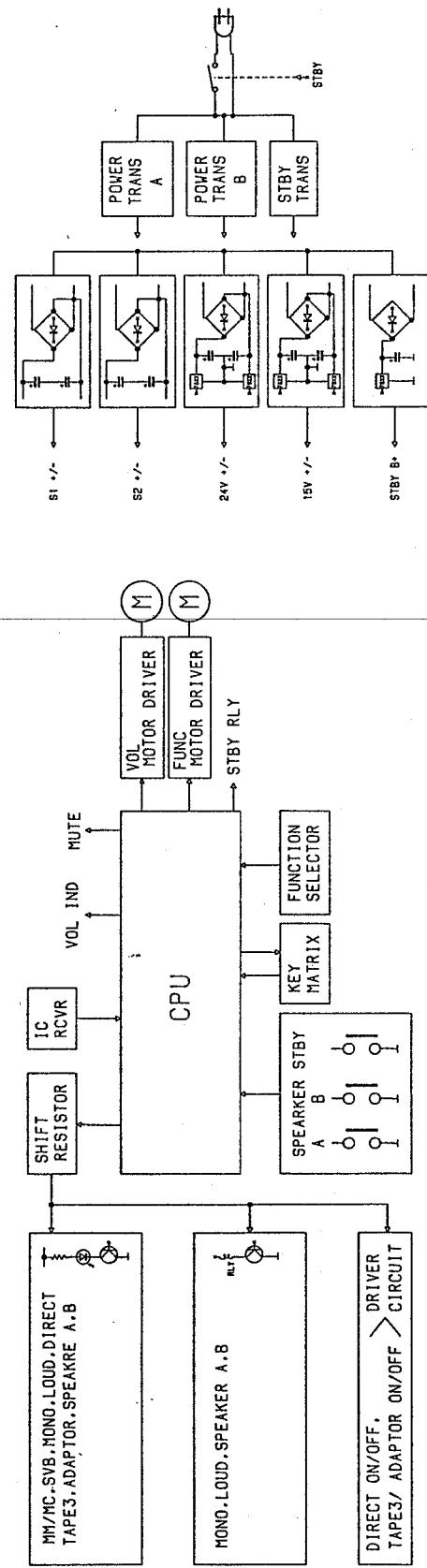


BLOCK DIAGRAMS

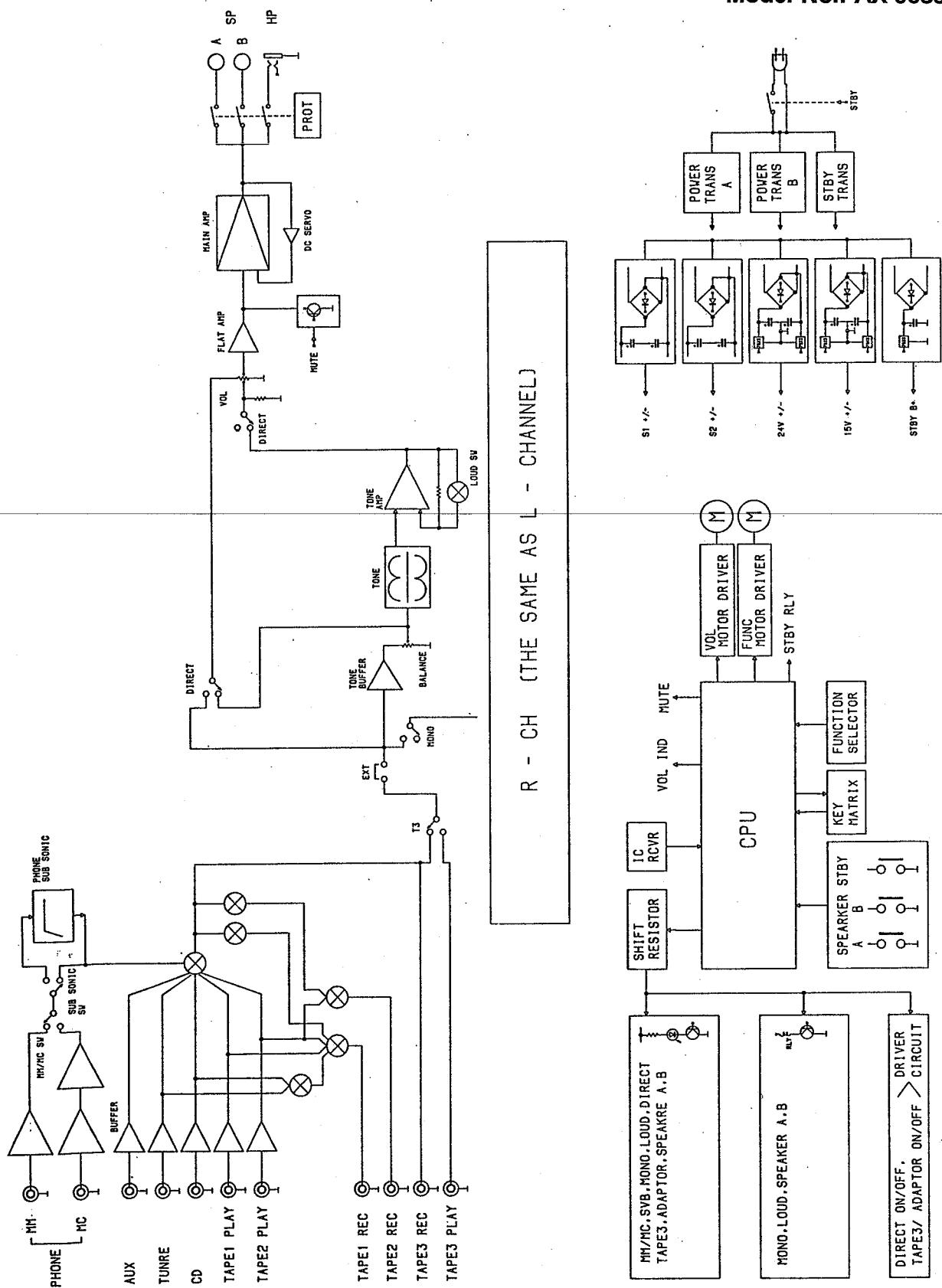
Model No.: AX-9030R



R - CH (THE SAME AS L - CHANNEL)



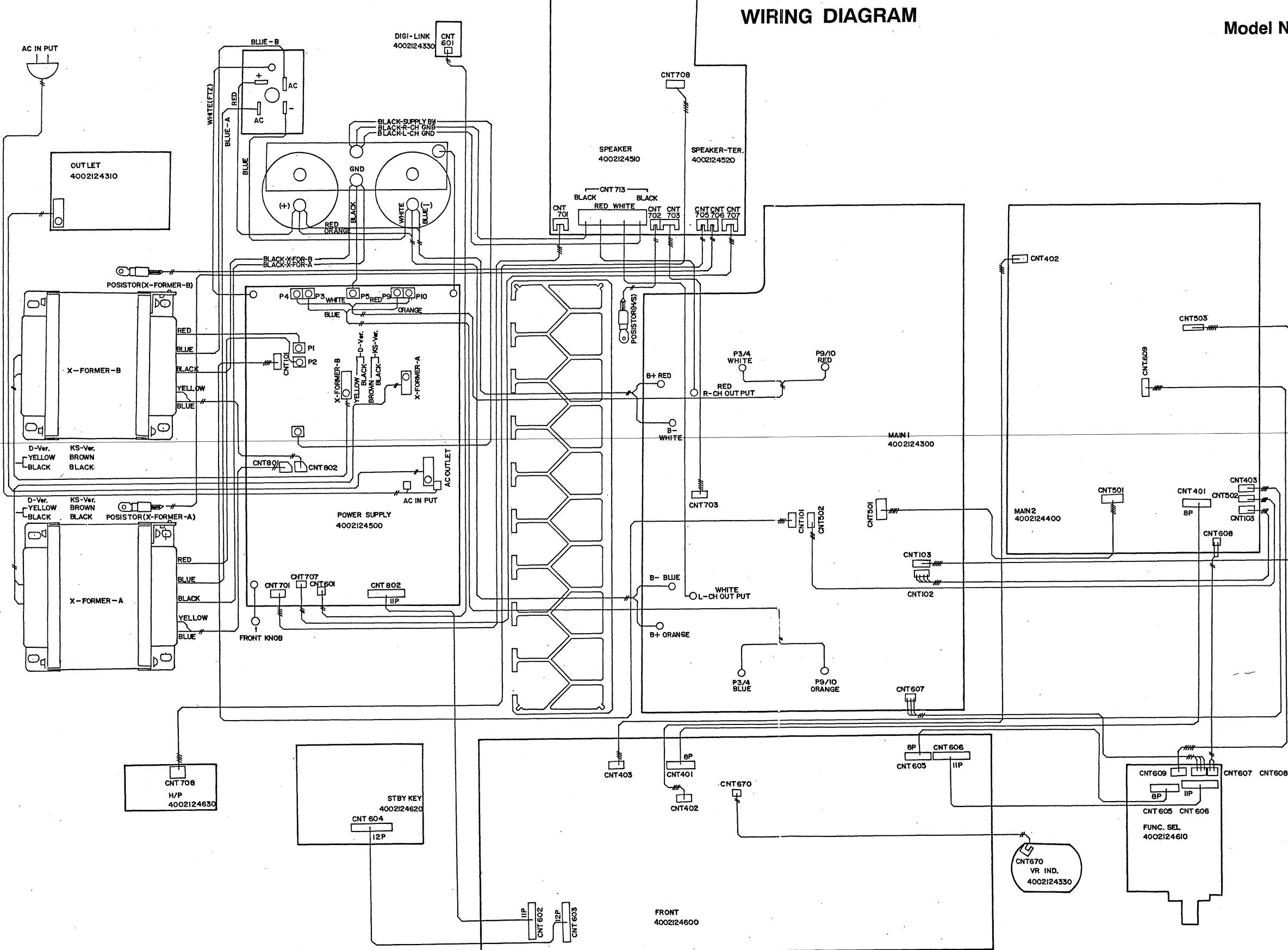
Model No.: AX-9035R



Notes

WIRING DIAGRAM

Model No.: AX-9030R/9035R



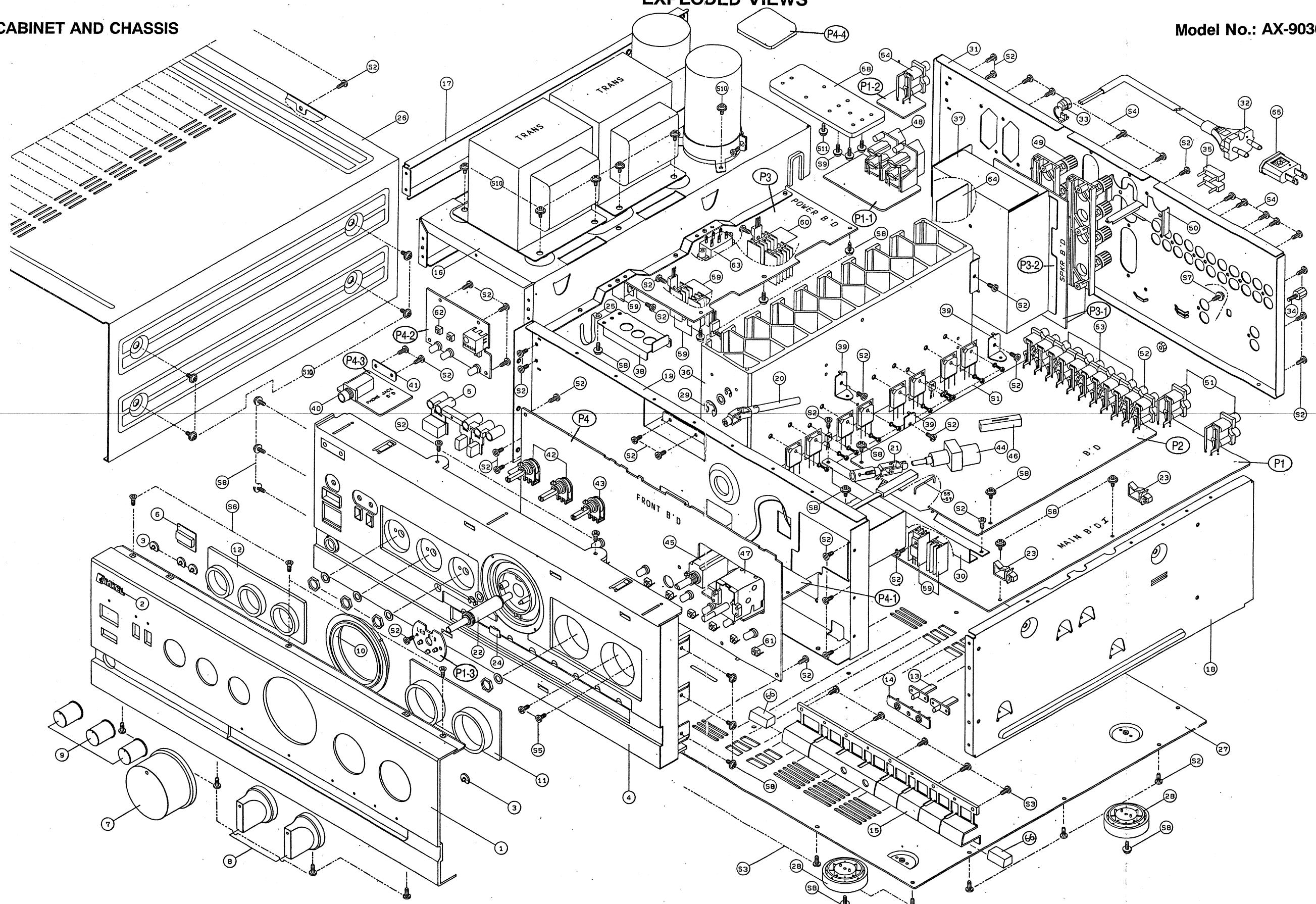
TROUBLESHOOTING

Symptom	Cause and Remedy
Amplifier inoperative.	<ul style="list-style-type: none"> • Faulty AC power cord. • Replace. • Defective power switch. • Replace. • Broken wire in the power transformer. • Replace the power transformer. • Defective power transformer. • Replace. • Damaged rectifying diodes D801 (KPBC2504). • Replace the defective. • Short in the rectifying circuit. • Repair the short.
EXT output normally but headphones inoperative.	<ul style="list-style-type: none"> • Headphone plug dose not mate with jack. • Replace the plug. • Defective in relay RLY703 on speaker A board. • Replace.
No sound from both channels or one channel.	<ul style="list-style-type: none"> • Defective in transistors Q514 L/R, Q515 L/R on main1 board. • Replace the defective component (s). • Defective in relays RLY701, RLY702 on speaker A board. • Replace the defective components. • Defective speaker selector switch. • Replace.
The standby function does not work.	<ul style="list-style-type: none"> • Defective in transistor Q521 on standby key board. • Replace the defective component. • Defective in transistor Q801 on supply board. • Replace. • Damaged rectifying diodes D821 to 824. • Replace the defective. • Defective in relay RLY811 on standby board. • Replace. • Defective IC601 pin 24, 34. • Replace the IC601. • Defective standby transformer (X-FOR.803). • Replace. • Defective in the standby circuit. • Repair.
The indicators are not on.	<ul style="list-style-type: none"> • Defective in IC601 on front board. • Replace the IC601 (CPU). • Defective in diodes D601 to D614. • Replace the defective components.
No record from source to recorder.	<ul style="list-style-type: none"> • Defective IC308. • Replace. • Defective selector switch SW on main 2 board. • Replace.
Volume, motor does not work.	<ul style="list-style-type: none"> • Defective motor, volume. • Replace. • Defective IC603 pin 1, 9. • Replace the IC603. • Defective IC601 pin 14, 15. • Replace the IC601.

Symptom	Cause and Remedy
Function selector inoperative.	<ul style="list-style-type: none"> • Defective motor, function selector. • Replace. • Defective IC604 pin 1, 9. • Replace the IC604. • Defective selector switch SW46 on main 2 board. • Replace.

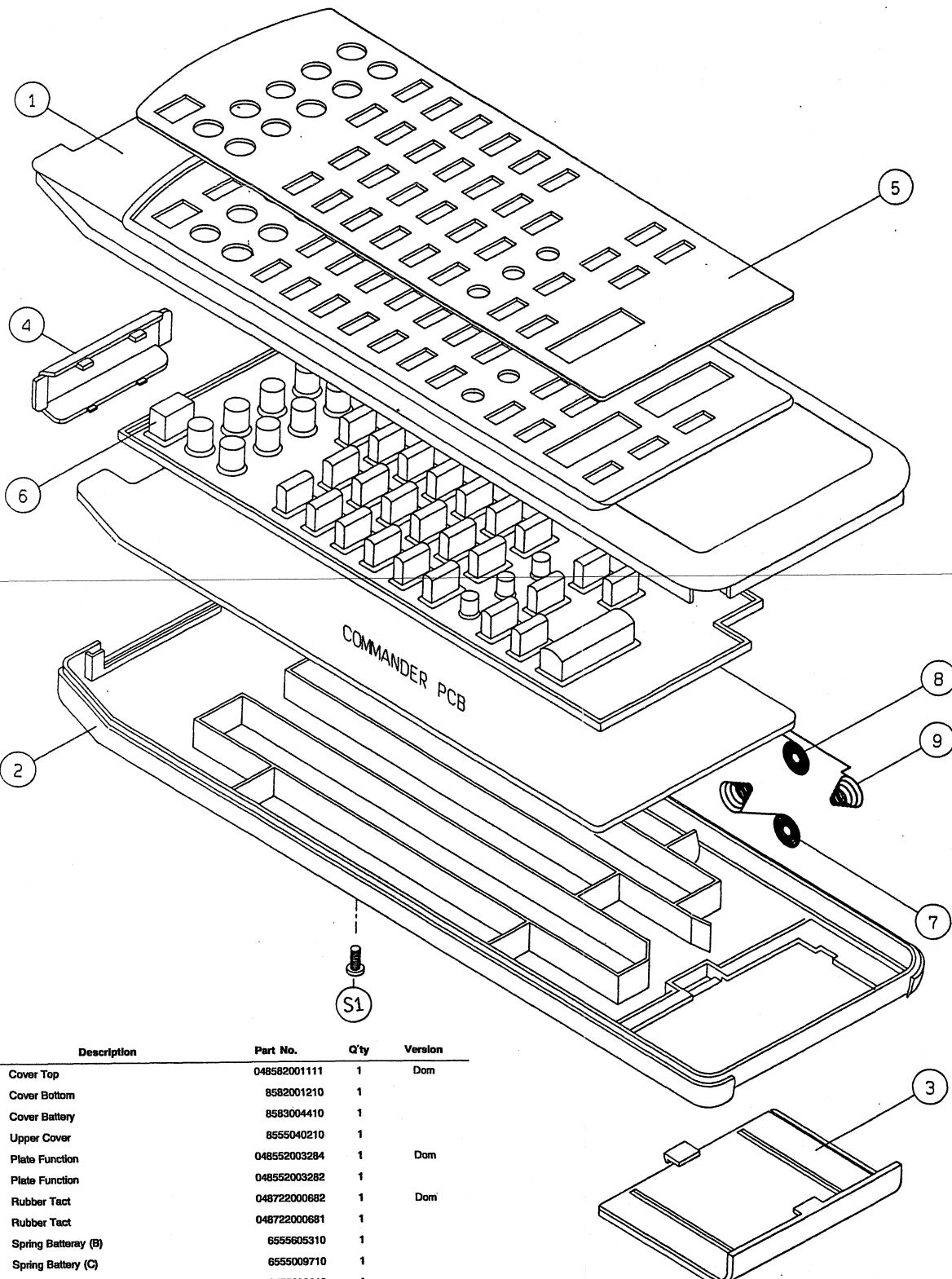
EXPLODED VIEWS

CABINET AND CHASSIS



REMOTE CONTROL UNIT

Model No.: AX-9030R/9035R



MECHANICAL PARTS LIST

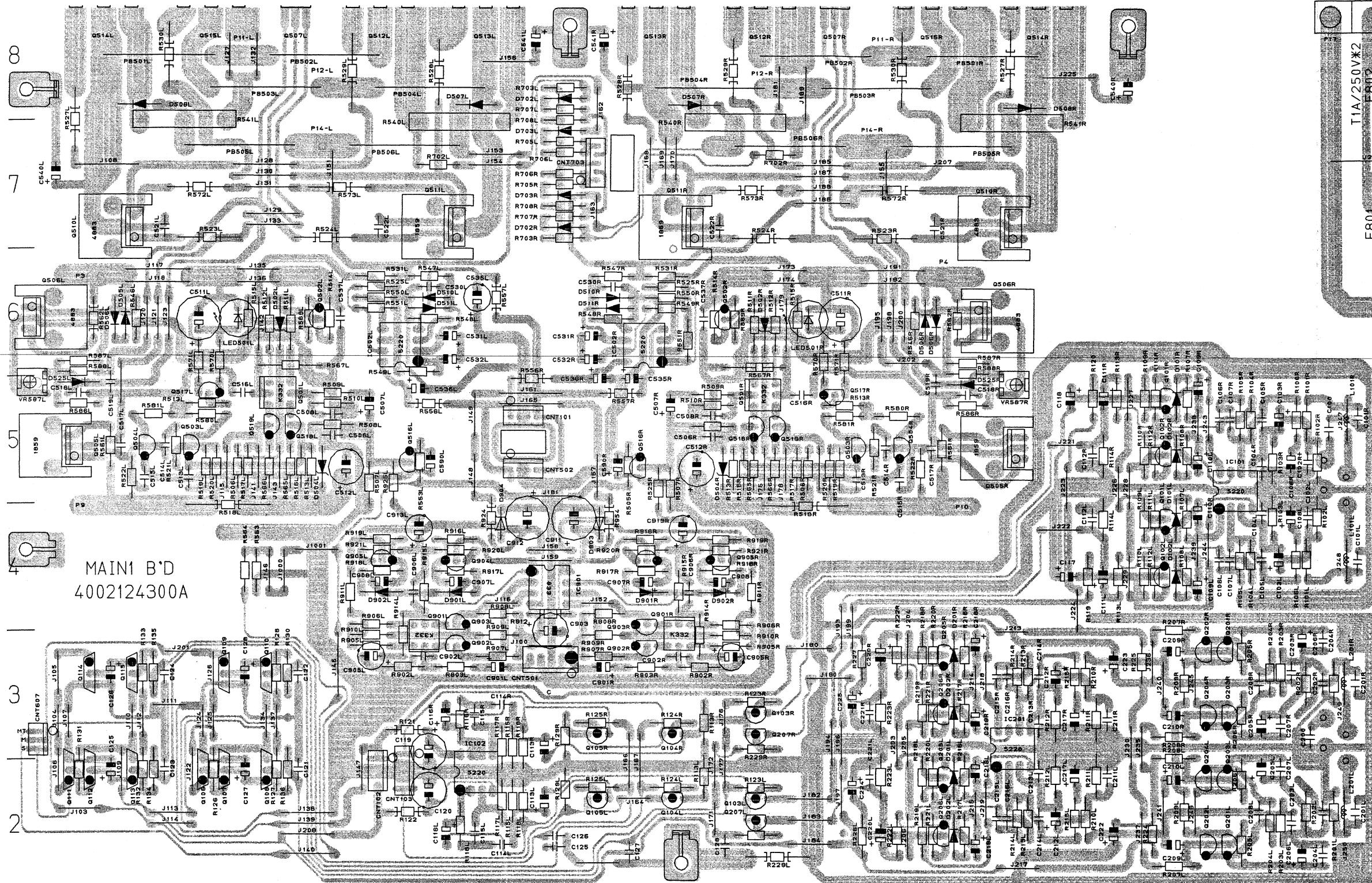
Ref. No.	Parts No.	Description	Q'ty	Version	Ref. No.	Parts No.	Description	Q'ty	Version
PACKAGE									
9722035010	Cushion Poly		1		43	3208060010	VR (250 kMN)	1	
9715000120	Film Soft		1		44	3208064810	VR Main (50 kAx2)	1	
ACCESSORY									
9007017121	Manual INST		1		45	4608003010	SW Selector SRBU0622	1	
CABINET									
1	048601026411	Panel Front, Al. Black	1	Dom	46	4618008710	SW Selector SRBU2621	1	
2	048601026412	Panel Front, Al. Black	1		47	4618008810	SW Selector SRBA260	1	
3	048535034011	Badge, Inkel	1	Dom	48	△ 4448103910	AC Outlet, ABS Black	2	Dom
4	048535033911	Badge, Sherwood	1		△ 4448102810	AC Outlet, ABS Black	1	A,B	
5	8555043110	Guide LED, P/C Milky	9		△ 4448103610	AC Outlet, ABS Black	2	D	
6	8521008010	Body Front, ABS Black	1		49	4408106910	Terminal Speaker	2	
7	048643006111	Button Power 3Key, Al. Black	1		50	6165141210	BKT Terminal Speaker, SECC+ZN Black	1	
8	048643005511	Window Sensor, P/C Smock	1		51	4438304010	Jack RCA (2P), Gold	2	
9	048643005611	Knob Main, Al. Black	1		52	4438304110	Jack RCA (4P), Gold	1	
10	048643005710	Knob Function, Al. Black	2		53	4438304210	Jack RCA (6P), Gold	3	
11	8533007810	Bezel Main, ABS Black	1		54	4438304410	Jack Diginlink, Gold	1	
12	8533007910	Bezel Function, ABS Black	1		55	6165141410	Power Bend (A), Gold	14	
13	8545109510	Bezel Blance, ABS Black	1		56	6165141420	Power Bend (B), Gold	2	
14	048545109611	Bezel Push, ABS Black	1		57	6165141430	Power Bend (C), Gold	2	
15	048642008311	Bezel Ring, ABS Gold	1		58	6165144410	Power Bend (D), Gold	1	
	048642000411	Button Tact 8Key, Al. Black	1		59	7505206210	H/Sink, Regulator TR.	11	
	048642000411	Button Tact 8Key, Al. Black	1		60	7505206110	H/Sink, Regulator TR.	2	
	6121607410	Left Frame, SECC+ZN Black	1		61	4658004210	Switch Tact	7	
	6122633110	BKT Frame, SECC+ZN Black	1		62	4658003710	Switch Tact	3	
	6122633010	Right Frame, SECC+ZN Black	1		63	△ 4618007710	Voltage Selector	2	Dom,B
	6121607510	Chassis Front, SECC+ZN Black	1		64	4835021220	Plate Cover, PVC	1	
	058555043610	System Universal	1		65	4428300310	Adapter	1	Dom Only
	058555043710	Volume Universal	1		66	8545112410	Decolation Knob, ABS Black	2	
	058555043810	Knob Universal	2						
	6528302310	Fastener	1						
	6715023010	Cushion Knob, CR Rubber Black	1						
	6525002610	Retainer Coil	2						
	046122022811	Cover Top, SECC+ZN Black	1						
	6122635510	Cover Bottom, SECC+ZN Black	1						
	046033101611	Foot "A", ABS Gold Hot Stamping	4,2 (Dom)						
	046033101711	Foot "B", Gold Ring	2 Dom Only						
	8339060310	E-Ring (9)	1						
	6123622810	VR. Motor Frame, SECC+ZN Black	1						
	046102032711	Chassis Back, SECC+ZN Black	1	Dom					
	046102032721	Chassis Back, SECC+ZN Black	1	A					
	046102032731	Chassis Back, SECC+ZN Black	1	B					
	046102032741	Chassis Back, SECC+ZN Black	1	Eur.					
	046102032751	Chassis Back, SECC+ZN Black	1	Ger.					
	046102032761	Chassis Back, SECC+ZN Black	1	E					
	△ 4308002410	Cord AC Power, ABS Black	1	Dom					
	△ 4308001410	Cord AC Power, ABS Black	1	A,B					
	△ 4308002310	Cord AC Power, ABS Black	1	D					
	△ 4308000610	Cord AC Power, ABS Black	1	E					
	6513000310	Cord Stopper, ABS Black	1	Dom Only					
	6518000710	Cord Stopper, ABS Black	1	A,B					
	6518000111	Cord Stopper, ABS Black	1	D,E					
	4463100420	Ground Terminal, Gold	1						
	4328204210	Jump Plug	2						
	7502005410	H/Sink Power, Black	1						
	6503024410	BKT H/Sink, SECC+ZN Black	1						
	6505118110	BKT Wire, SECC+ZN Black	2						
	6505103920	BKT PCE, SECC+ZN Black	3						
	4438005020	Jack Phone	1						
	6505129410	BKT Jack Phone, SECC+ZN Black	1						
	3208059910	VR (100 kAx2)	2						

PRODUCT SAFETY NOTICE

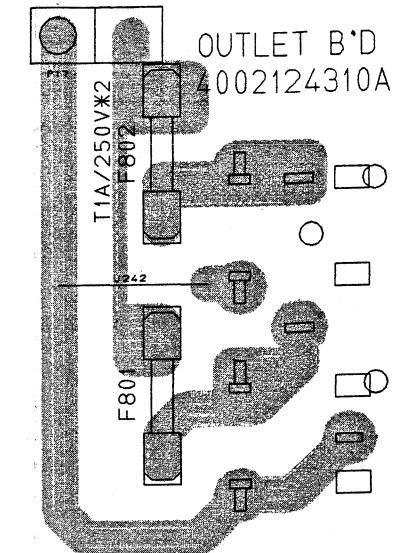
Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol Δ in the parts list and the safety can be of special significance. When replacing a component identified with Δ , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

PRINTED CIRCUIT BOARDS

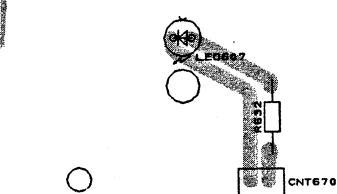
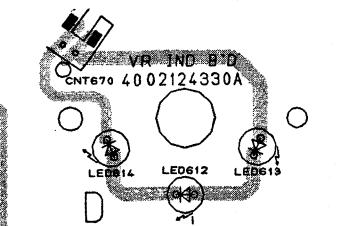
P.C. Board Main1



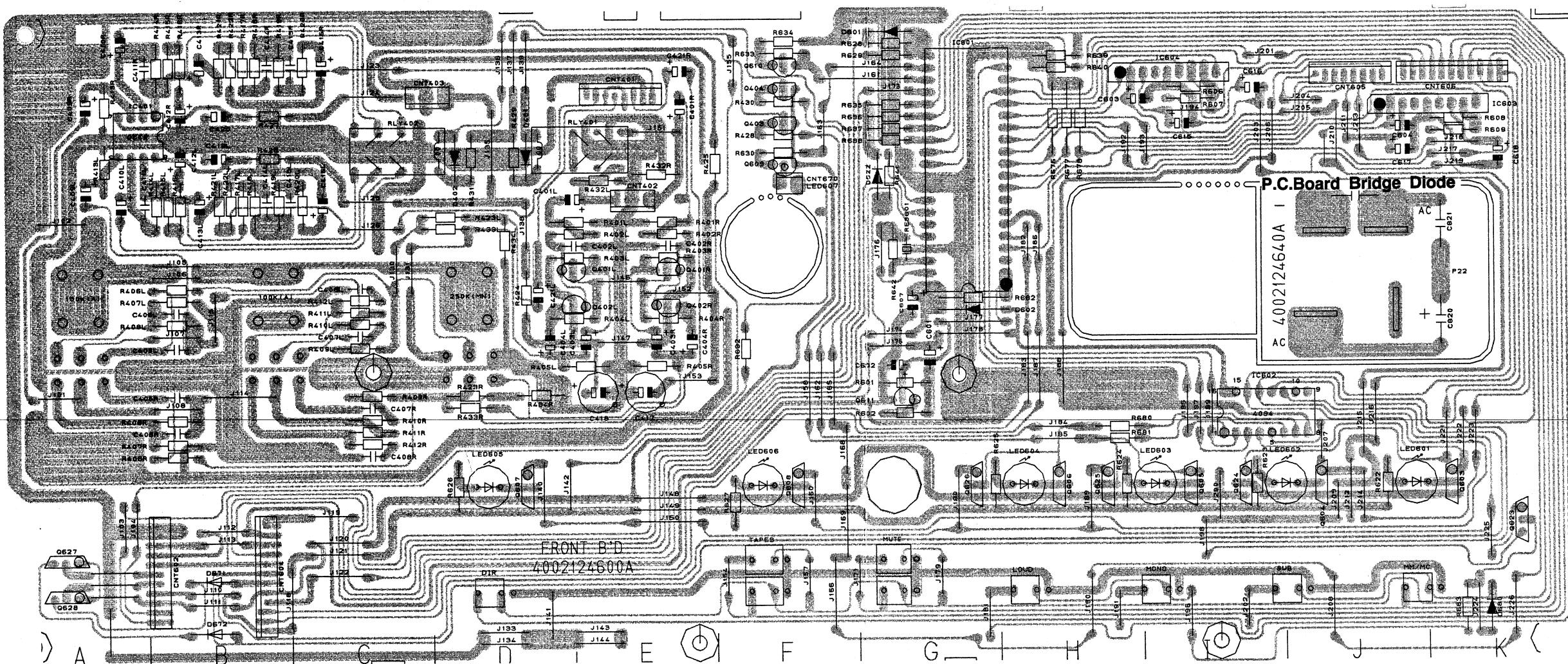
P.C. Board Outlet



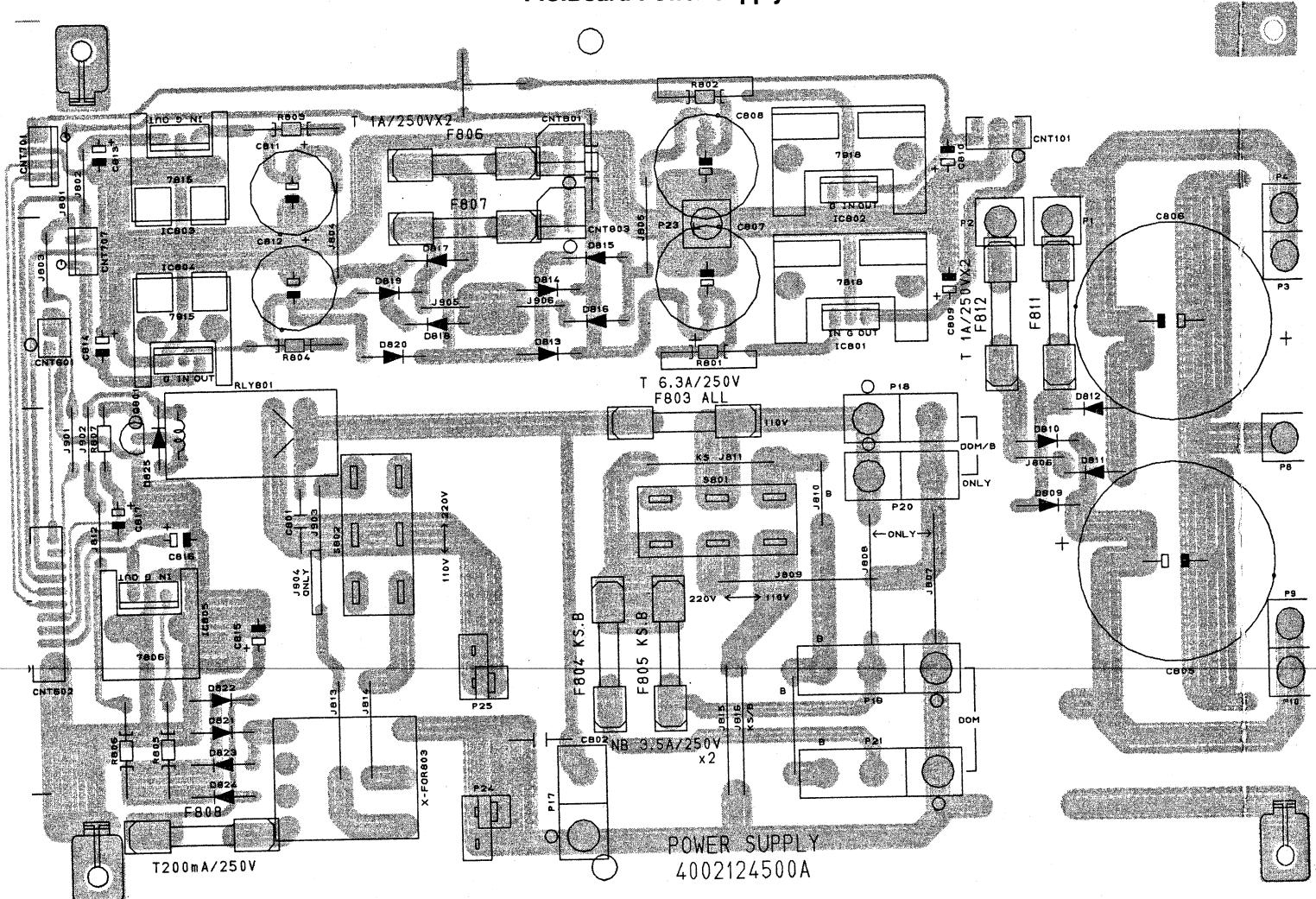
P.C. Board Volume Ind.



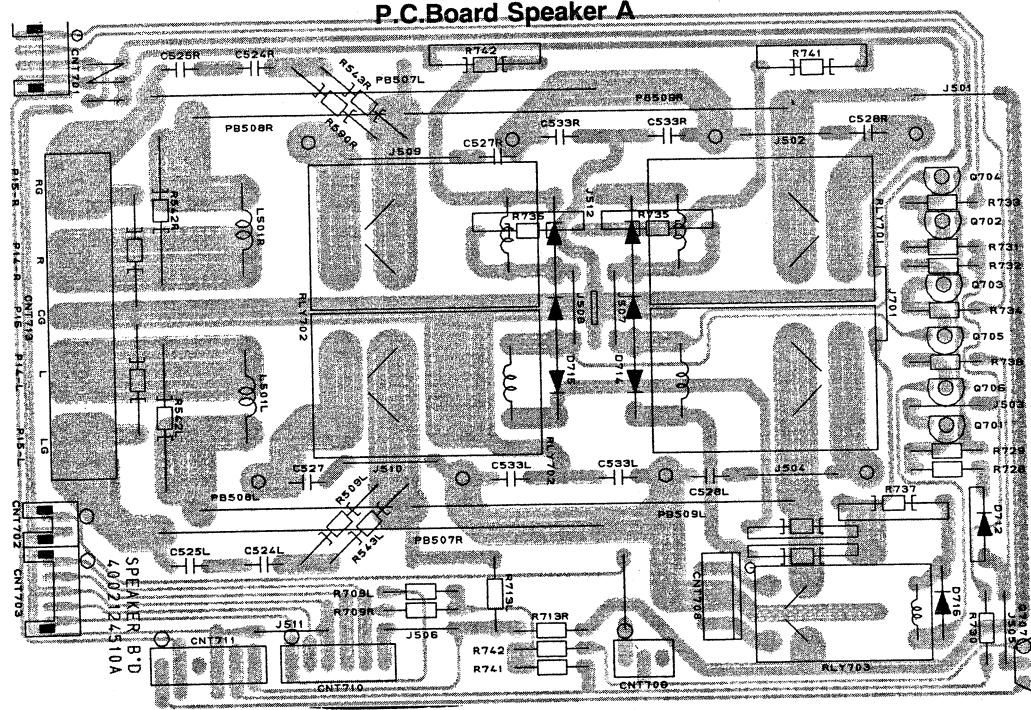
P.C. Board Front



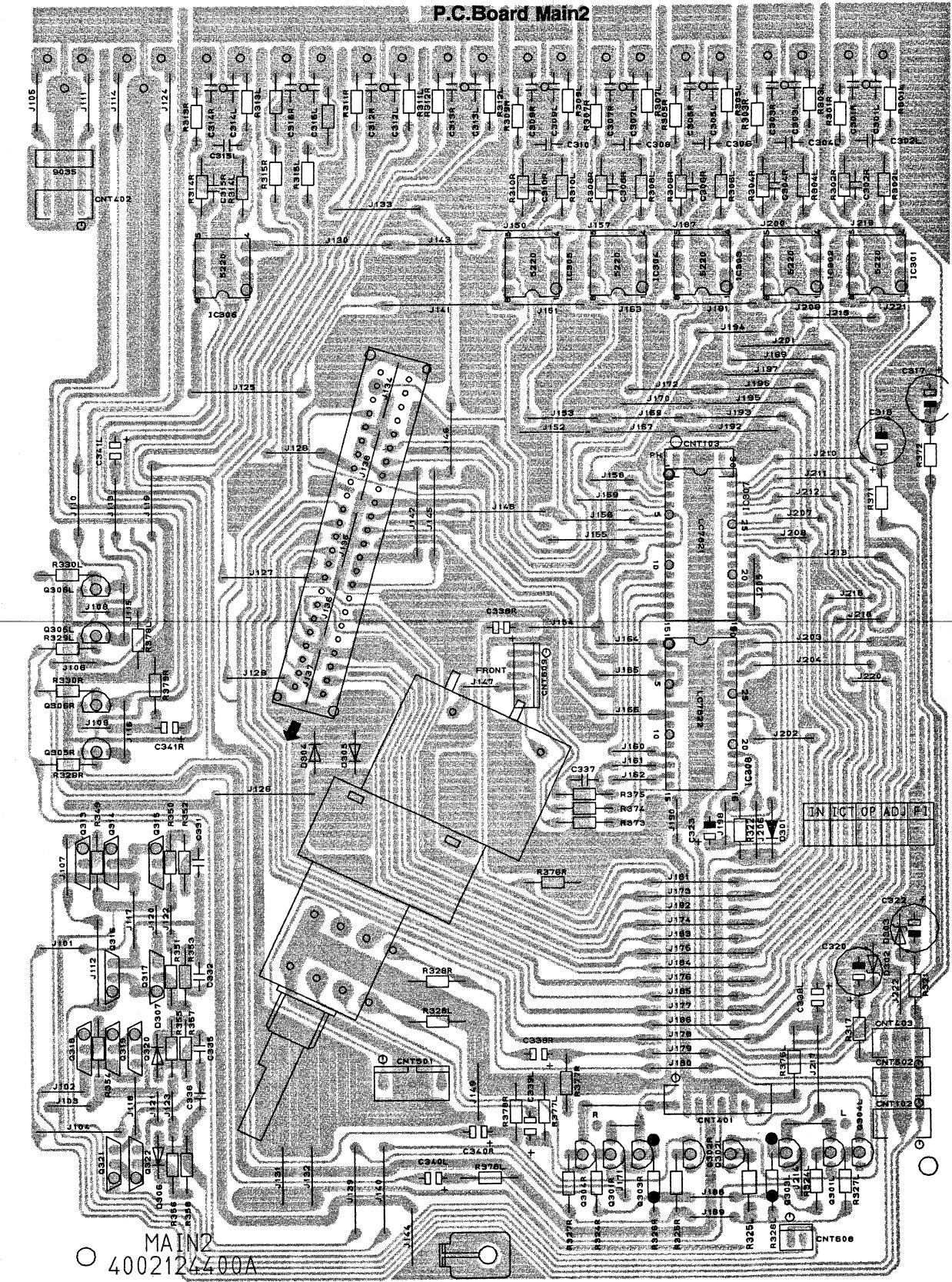
P.C. Board Power Supply



P.C. Board Speaker A



P.C. Board Main2



ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTICE: Products marked with \triangle have special characteristics important to safety. If you replace any of these components, read carefully the product safety notice in this manual. Don't degrade the safety of the product through improper servicing.

Resistor/Capacitor Tolerance, D: ($\pm 0.5\%$), J: ($\pm 5\%$), K: ($\pm 10\%$), M: ($\pm 20\%$), Z: (+80, -20%)

Ref. No.	Parts No.	Description	Q'ty	Version	Ref. No.	Parts No.	Description	Q'ty	Version
P1	054021010027	Ass'y P.C.B Main1			D507 L/R	2258128002	1N4003, Rectifier	2	
51	4438304010	Jack RCA (2P), Gold	2		D508 L/R	2258128002	1N4003, Rectifier	2	
59	7505206210	H/Sink, Regulator TR.	8		D510 L/R	2058322101	1N4148, Switching	2	
IC101/IC102	2168215001	M5220P, OP Amp	2		D511 L/R	2058322101	1N4148, Switching	2	
IC201	2168215001	M5220P, OP Amp	1		D525 L/R	2058322101	1N4148, Switching	2	
IC502 L/R	2168215001	M5220P, OP Amp	2		D702 L/R	2058322101	1N4148, Switching	2	
IC901	21682200105	LM833N	1		D703 L/R	2058322101	1N4148, Switching	2	
Q101 L/R	2208606107	KTC2229Y/KTC3206, NPN Silicon	2		D901 L/R	2058322101	1N4148, Switching	2	
Q102 L/R	2208206102	KA949Y/KTA1024, PNP Silicon	2		D902 L/R	2058322101	1N4148, Switching	2	
Q103 L/R	2218207106	FET 2SK117Y	2		D903 L/R	2258599109	Zener, UZ 15.0BSC	2	
Q104 L/R	2218207106	FET 2SK117Y	2		D904 L/R	2258599109	Zener, UZ 15.0BSC	2	
Q105 L/R	2218207106	FET 2SK117Y	2		R101 L/R	3069102270	Carbon Film 1 kohm 1/4 W J	2	
Q106/Q107	2208622109	DTC144E	2		R102 L/R	3069473270	Carbon Film 47 kohm 1/4 W J	2	
Q108	2208222105	DTA114YS	1		R103 L/R	3069564270	Carbon Film 560 kohm 1/4 W J	2	
Q109	2208622109	DTC144E	1		R104 L/R	3069564270	Carbon Film 560 kohm 1/4 W J	2	
Q110	2208222105	DTA114YS	1		R105 L/R	3069443270	Carbon Film 43 kohm 1/4 W J	2	
Q111/Q112	2208622109	DTC144E	2		R106 L/R	3069751270	Carbon Film 750 ohm 1/4 W J	2	
Q113	2208222105	DTA114YS	1		R107 L/R	3069151270	Carbon Film 150 ohm 1/4 W J	2	
Q114	2208622109	DTC144E	1		R108 L/R	3069151270	Carbon Film 150 ohm 1/4 W J	2	
Q115	2208222105	DTA114YS	1		R109 L/R	3069393270	Carbon Film 39 kohm 1/4 W J	2	
Q201 L/R	2008607114	2SC3329GR	2		R110 L/R	3069393270	Carbon Film 39 kohm 1/4 W J	2	
Q202 L/R	2008607114	2SC3329GR	2		R111 L/R	3069150270	Carbon Film 15 ohm 1/4 W J	2	
Q203 L/R	2008207107	2SA1316GR	2		R112 L/R	3069150270	Carbon Film 15 ohm 1/4 W J	2	
Q204 L/R	2008207107	2SA1316GR	2		R113 L/R	3069103270	Carbon Film 10 kohm 1/4 W J	2	
Q205 L/R	2208606107	KTC2229Y/KTC3206, NPN Silicon	2		R115 L/R	3069472270	Carbon Film 4.7 kohm 1/4 W J	2	
Q206 L/R	2208206102	KA949Y/KTA1024, PNP Silicon	2		R116 L/R	3069243270	Carbon Film 2.4 kohm 1/4 W J	2	
Q207 L/R	2218207106	FET 2SK117Y	2		R117 L/R	3069684270	Carbon Film 680 kohm 1/4 W J	2	
Q501 L/R	2018217700	FET 2SK332F	2		R118 L/R	3069472270	Carbon Film 4.7 kohm 1/4 W J	2	
Q502 L/R	2228406120	BKTC2235/KTC1027, PNP	2		R119-R122	3069470270	Carbon Film 47 ohm 1/4 W J	4	
Q503 L/R	2208606107	KTC2229Y/KTC3206, NPN Silicon	2		R123 L/R	3069106270	Carbon Film 10 Mohm 1/4 W J	2	
Q504 L/R	2208606107	KTC2229Y/KTC3206, NPN Silicon	2		R124 L/R	3069106270	Carbon Film 10 Mohm 1/4 W J	2	
Q505 L/R	2028016100	2SA1859A-Y	2		R125 L/R	3069106270	Carbon Film 10 Mohm 1/4 W J	2	
Q506 L/R	2028316100	2SC4883A-Y	2		R126	3069103270	Carbon Film 10 kohm 1/4 W J	1	
Q507 L/R	2008622110	2SC4137, NPN Bise	2		R127/R128	3069104270	Carbon Film 100 kohm 1/4 W J	2	
Q510 L/R	2028316100	2SC4883A-Y	2		R129 L/R	3069103270	Carbon Film 10 kohm 1/4 W J	2	
Q511 L/R	2028016100	2SA1859A-Y	2		R130	3069105270	Carbon Film 1 Mohm 1/4 W J	1	
Q512 L/R	2028416122	2SC3519A-Y, Power	2		R131	3069103270	Carbon Film 10 kohm 1/4 W J	1	
Q513 L/R	2028116108	2SA1386A-Y, Power	2		R132/R133	3069104270	Carbon Film 100 kohm 1/4 W J	2	
Q514 L/R	2028416122	2SC3519A-Y, Power	2		R134-R136	3069105270	Carbon Film 1 Mohm 1/4 W J	3	
Q515 L/R	2028116108	2SA1386A-Y, Power	2		R201 L/R	3069122270	Carbon Film 1.2 kohm 1/4 W J	2	
Q516 L/R	2208606112	KTD1302, NPN	2		R202 L/R	3069680270	Carbon Film 68 ohm 1/4 W J	2	
Q517 L/R	2228406120	BKTC2235/KTC1027, PNP	2		R203 L/R	3069911270	Carbon Film 910 ohm 1/4 W J	2	
Q518 L/R	2208606107	KTC2229Y/KTC3206, NPN Silicon	2		R204 L/R	3069103270	Carbon Film 10 kohm 1/4 W J	2	
Q519 L/R	2208606107	KTC2229Y/KTC3206, NPN Silicon	2		R205 L/R	3069473270	Carbon Film 47 kohm 1/4 W J	2	
Q901 L/R	2018217700	FET 2SK332F	2		R206 L/R	3069473270	Carbon Film 47 kohm 1/4 W J	2	
Q902 L/R	2208606107	KTC2229Y/KTC3206, NPN Silicon	2		R207 L/R	3069562270	Carbon Film 5.6 kohm 1/4 W J	2	
Q903 L/R	2208606107	KTC2229Y/KTC3206, NPN Silicon	2		R208 L/R	3069562270	Carbon Film 5.6 kohm 1/4 W J	2	
Q904 L/R	2208606107	KTC2229Y/KTC3206, NPN Silicon	2		R209 L/R	3069100270	Carbon Film 10 ohm 1/4 W J	2	
Q905 L/R	2208206102	KA949Y/KTA1024, PNP Silicon	2		R210 L/R	3069470270	Carbon Film 47 ohm 1/4 W J	2	
D101 L/R	2058322101	1N4148, Switching	2		R211 L/R	3069473270	Carbon Film 47 kohm 1/4 W J	2	
D102 L/R	2058322101	1N4148, Switching	2		R212 L/R	3069564270	Carbon Film 560 kohm 1/4 W J	2	
D201 L/R	2058322101	1N4148, Switching	2		R213 L/R	3069564270	Carbon Film 560 kohm 1/4 W J	2	
D202 L/R	2058322101	1N4148, Switching	2		R214 L/R	3069433270	Carbon Film 43 kohm 1/4 W J	2	
D502 L/R	2258599123	Zener, UZ 8.2BSC	2		R215 L/R	3069391270	Carbon Film 390 ohm 1/4 W J	2	
D504 L/R	2258599115	Zener, UZ 27.0BSC	2		R216 L/R	3069151270	Carbon Film 150 ohm 1/4 W J	2	
D505 L/R	2058322101	1N4148, Switching	2		R217 L/R	3069151270	Carbon Film 150 ohm 1/4 W J	2	
D506 L/R	2058322101	1N4148, Switching	2		R218 L/R	3069393270	Carbon Film 39 kohm 1/4 W J	2	

Ref. No.	Parts No.	Description	Q'ty	Version	Ref. No.	Parts No.	Description	Q'ty	Version
R219 L/R	3069393270	Carbon Film 39 kohm 1/4 W J	2		R220 L/R	3069150270	Carbon Film 15 ohm 1/4 W J	2	
R221 L/R	3069150270	Carbon Film 15 ohm 1/4 W J	2		R223 L/R	3069472270	Carbon Film 4.7 kohm 1/4 W J	2	
R224/R225	3069152270	Carbon Film 1.5 kohm 1/4 W J	2		R226/R227	3069470270	Carbon Film 47 ohm 1/4 W J	2	
R229 L/R	3069106270	Carbon Film 10 Mohm 1/4 W J	2		R230 L/R	3069473270	Carbon Film 47 kohm 1/4 W J	2	
R506 L/R	3069473270	Carbon Film 47 kohm 1/4 W J	2		R507 L/R	3069474270	Carbon Film 470 kohm 1/4 W J	2	
R508 L/R	3069104270	Carbon Film 100 kohm 1/4 W J	2		R509 L/R	3069471270	Carbon Film 470 ohm 1/4 W J	2	
R510 L/R									

Ref. No.	Parts No.	Description	Q'ty	Version
C508 L/R	3579101130	Ceramic Disc	100 pF	50 V J 2
C509 L/R	3479100710	Electrolytic SG	10 uF	50 V M 2
C511 L/R	3409347139	Electrolytic SG	470 uF	16 V M 2
C512 L/R	3409247099	Electrolytic SA	47 uF	100 V M 2
C513 L/R	3579270130	Ceramic Disc	27 pF	50 V J 2
C514 L/R	3579561130	Ceramic Disc	560 pF	50 V J 2
C515 L/R	3579270130	Ceramic Disc	27 pF	50 V J 2
C516 L/R	3579809030	Ceramic Disc	8 pF	50 V D 2
C517 L/R	3579180130	Ceramic Disc	18 pF	50 V J 2
C518 L/R	3579471130	Ceramic Disc	471 pF	50 V J 2
C521 L/R	3579151130	Ceramic Disc	150 pF	50 V J 2
C522 L/R	3579151130	Ceramic Disc	150 pF	50 V J 2
C530 L/R	3579330130	Ceramic Disc	33 pF	50 V J 2
C531 L/R	3479322071	Electrolytic SG	22 uF	50 V M 2
C532 L/R	3479322071	Electrolytic SG	22 uF	50 V M 2
C535 L/R	3479347025	Electrolytic SG	47 uF	25 V M 2
C536 L/R	3479347025	Electrolytic SG	47 uF	25 V M 2
C540 L/R	3479210997	Electrolytic SA	1 uF	100 V M 2
C541 L/R	3479210997	Electrolytic SA	1 uF	100 V M 2
C901 L/R	3479247964	Electrolytic AH	4.7 uF	35 V M 2
C902 L/R	3579101130	Ceramic Disc	100 pF	50 V J 2
C903	3479322141	Electrolytic SG	22 uF	25 V M 1
C905 L/R	3479310121	Electrolytic SG	100 uF	10 V M 2
C906 L/R	3579100030	Ceramic Disc	10 pF	50 V J 2
C907 L/R	3479210974	Electrolytic AH	1 uF	50 V M 2
C908 L/R	3479210974	Electrolytic AH	1 uF	50 V M 2
C911/C912	3409333149	Electrolytic SG	330 uF	25 V M 2
L101 L/R	2648601470	Coil Inductor 50uH		2
L201 L/R	2648601470	Coil Inductor 50uH		2
CNT101	436204323132	Lead Assy 4P 320 mm		1
CNT102	436204143132	Lead Assy 4P 140 mm		1
CNT103	435205288332	Lead Assy 5P 280 mm		1
CNT501	435205168331	Lead Assy 5P 160 mm		1
CNT502	436204223132	Lead Assy 4P 220 mm		1
CNT607	436203103132	Lead Assy 3P 100 mm		1
CNT703	436205303132	Lead Assy 5P 300 mm		1
P3	4359894352	Lead As'y 2P		1
P4	4359894237	Lead As'y 2P		1
P9	4359894352	Lead As'y 2P		1
P10	4359894237	Lead As'y 2P		1
P11 L	4359785338	Lead As'y 2P 380 mm		1
P11 R	4359785226	Lead As'y 2P 260 mm		1
P12 L	4359785338	Lead As'y 2P 380 mm		1
P12 R	4359785226	Lead As'y 2P 260 mm		1
P14 L	4359006928	Lead Assy 1P 280 mm		1
P14 R	4359006216	Lead Assy 1P 160 mm		1
PB501 L/R	6165141410	Power Bend (A)		2
PB502 L/R	6165141410	Power Bend (A)		2
PB503 L/R	6165141410	Power Bend (A)		2
PB504 L/R	6165141410	Power Bend (A)		2
PB505 L/R	6165141410	Power Bend (A)		2
PB506 L/R	6165141410	Power Bend (A)		2
P4-1 054021010036	Ass'y P.C.B Function Selector			
45	4608003010	SW Selector SRBU0622		1
47	4618008810	SW Selector SRBAA260		1
D603-D611	2058322101	1N4148, Switching		9
R652	3069222270	Carbon Film 2.2 kohm 1/4 W	J	1
R653	3069104270	Carbon Film 100 kohm 1/4 W	J	1
C608	3579103530	Ceramic Disc 0.01 uF 50 V	Z	1
CNT605	4428516710	Wafer 8P		1
CNT606	4428517010	Wafer 11P		1
CNT607	4428516210	Wafer 3P		1
CNT608	4428516110	Wafer 2P		1
CNT609	4428516410	Wafer 5P		1

Ref. No.	Parts No.	Description	Q'ty	Version
P4-2 054021010037	Ass'y P.C.B ST/BY Key			
62	4658003710	Switch Tact		3
Q611/Q612	2208606104	KTC1815/BKTC3198, NPN Silicon		2
Q621	2208606104	KTC1815/BKTC3198, NPN Silicon		1
LED609	2371124502	LED, SLR-54YCF03		1
LED610	2371124502	LED, SLR-54YCF03		1
LED611	2371124702	LED, SLR-54URCF03		1
R643-R645	3069104270	Carbon Film 100 kohm 1/4 W	J	3
R646	3069472270	Carbon Film 4.7 kohm 1/4 W	J	1
R647	3069473270	Carbon Film 47 kohm 1/4 W	J	1
R648	3069472270	Carbon Film 4.7 kohm 1/4 W	J	1
R649	3069473270	Carbon Film 47 kohm 1/4 W	J	1
R650/R651	3069132270	Carbon Film 1.3 kohm 1/4 W	J	2
R671	3069472270	Carbon Film 4.7 kohm 1/4 W	J	1
R672	3069473270	Carbon Film 47 kohm 1/4 W	J	1
R673	3069331270	Carbon Film 330 ohm 1/4 W	J	1
CNT604	4428517110	Wafer 12P		1
IR601	2408000133	KRM-40, Remote Sensor		1
P4-3 054021010038	Ass'y P.C.B Headphone			
40	4438005020	Jack Phone		1
R544 L/R	3029471572	Metal Film 470 ohm	2 W	J 2
R545 L/R	3029681472	Metal Film 680 ohm	1 W	J 2 D
C529 L/R	3079472530	Ceramic Disc 4700 pF		J 2 D
CNT708	4428529410	Wafer 4P		1
P4 054021010035	Ass'y P.C.B Front			
42	3208059910	VR (100 kAx2)		2
43	3208060010	VR (250 kMN)		1
61	4658004210	Switch Tact		7
IC401	2168215001	MS220P, OP Amp		1
IC601	2138309171	LSC412224P DWP114		1
IC602	2138009115	MC14094		1
IC603/Q603	IC6042168007204	TA7291S		2
Q401 L/R	2208206104	KTA970BL, PNP Silicon		2
Q402 L/R	2208606108	KTC2240BL/BKTC3200, NPN Silicon		2
Q403/Q404	2208606104	KTC1815/BKTC3198, NPN Silicon		2
Q601	2208606104	KTC1815/BKTC3198, NPN Silicon		1
Q603-Q608	2208622106	DTC114YS		6
Q609	2208606104	KTC1815/BKTC3198, NPN Silicon		1
Q610	2208206105	DTA114YS		1
Q623-Q626	2208622108	DTC114TS		4
Q627/Q628	2208222105	DTA114YS		2
D401/D402	2258128002	IN4003, Rectifier		2
D601/D602	2058322101	IN4148, Switching		2
D622	2058322101	IN4148, Switching		1
D671/D672	2058322101	IN4148, Switching		2
D680	2058322101	IN4148, Switching		1
LED601	2371124502	LED, SLR-54YCF03		1
LED602	2371124502	LED, SLR-54YCF03		1
LED603	2371124502	LED, SLR-54YCF03		1
LED604	2371124502	LED, SLR-54YCF03		1
LED606	2371124502	LED, SLR-54YCF03		1
RLY401	5528001040	Relay, RZ-24 24V DC		1
RLY402	5528001040	Relay, RZ-24 24V DC		1
RES601	3938131570	Resonator, CST4.00MGW		1
R401 L/R	3069104270	Carbon Film 100 kohm 1/4 W	J	2
R402 L/R	3069221270	Carbon Film 220 ohm 1/4 W	J	2
R403 L/R	3069103270	Carbon Film 10 kohm 1/4 W	J	2
R404 L/R	3069103270	Carbon Film 10 kohm 1/4 W	J	2
R405 L/R	3069104270	Carbon Film 100 kohm 1/4 W	J	2
R406 L/R	3069223270	Carbon Film 22 kohm 1/4 W	J	2
R407 L/R	3069392270	Carbon Film 3.9 kohm 1/4 W	J	2
R408 L/R	3069683270	Carbon Film 68 kohm 1/4 W	J	2
R409 L/R	3069222270	Carbon Film 2.2 kohm 1/4 W	J	2

Ref. No.	Parts No.	Description	Q'ty	Version
R410 L/R	3069105270	Carbon Film	1 Mohm	1/4 W J 2
R411 L/R	3069823270	Carbon Film	82 kohm	1/4 W J 2
R412 L/R	3069821270	Carbon Film	820 ohm	1/4 W J 2
R413 L/R	3069753270	Carbon Film	75 kohm	1/4 W J 2
R414 L/R	3069154270	Carbon Film	150 kohm	1/4 W J 2
R415 L/R	3069332270	Carbon Film	3.3 kohm	1/4 W J 2
R416 L/R	3069182270	Carbon Film	1.8 kohm	1/4 W J 2
R417 L/R	3069392270	Carbon Film	3.9 kohm	1/4 W J 2
R418 L/R	3069223270	Carbon Film	22 kohm	1/4 W J 2
R419 L/R	3069152270	Carbon Film	1.5 kohm	1/4 W J 2
R420 L/R	3069122270	Carbon Film	1.2 kohm	1/4 W J 2
R421 L/R	3069392270	Carbon Film	3.9 kohm	1/4 W J 2
R422 L/R	3069471270	Carbon Film	470 ohm	1/4 W J 2
R423 L/R	3069101270	Carbon Film	100 ohm	1/4 W J 2
R424-R427	3069470270	Carbon Film	47 ohm	1/4 W J 4
R428	3069472270	Carbon Film	4.7 kohm	1/4 W J 1
R429	3069102270	Carbon Film	1 kohm	1/4 W J 1
R430	3069472270	Carbon Film	4.7 kohm	1/4 W J 1
R431	3069102270	Carbon Film	1 kohm	1/4 W J 1
R432 L/R	3069104270	Carbon Film	100 kohm	1/4 W J 2
R433 L/R	3069103270	Carbon Film	10 kohm	1/4 W J 2
R434 L/R	3069103270	Carbon Film	10 kohm	1/4 W J 2
R601	3069103270	Carbon Film	10 kohm	1/4 W J 1
R602	3069102270	Carbon Film	1 kohm	1/4 W J 1
R606	3069272270	Carbon Film	2.7 kohm	1/4 W J 1
R607	3069153270	Carbon Film	15 kohm	1/4 W J 1
R608	3069512270	Carbon Film	5.1 kohm	1/4 W J 1
R609	3069822270	Carbon Film	8.2 kohm	1/4 W J 1
R622-R627	3069132270	Carbon Film	1.3 kohm	1/4 W J 6
R628	3069223270	Carbon Film	22 kohm	1/4 W J 1
R629	3069224270	Carbon Film	220 kohm	1/4 W J 1
R630	3069472270	Carbon Film	4.7 kohm	1/4 W J 1
R632	3069911270	Carbon Film	910 ohm	1/4 W J 1
R633	3069103270	Carbon Film	10 kohm	1/4 W J 1
R634-R638	3069332270	Carbon Film	3.3 kohm	1/4 W J 6
R639/R640	3069334270	Carbon Film	330 kohm	1/4 W J 2
R641	3069104270	Carbon Film	100 kohm	1/4 W J 1
R642	3069106270	Carbon Film	10 Mohm	1/4 W J 1
R676-R678	3069334270	Carbon Film	330 kohm	1/4 W J 3
R680/R681	3069472270	Carbon Film	4.7 kohm	1/4 W J 2
R682	3069224270	Carbon Film	220 kohm	1/4 W J 1
R683	3069472270	Carbon Film	4.7 kohm	1/4 W J 1
C401 L/R	3479222974	Electrolytic AH	2.2 uF	50 V M 2
C402 L/R	3579470130	Ceramic Disc	47 pF	50 V J 2
C403 L/R	3479210064	Electrolytic AH	10 uF	35 V M 2
C404 L/R	3479210064	Electrolytic AH	10 uF	35 V M 2
C405 L/R	3679153120	Mylar	0.015 uF	100 V J 2
C406 L/R	3679823120	Mylar	0.082 uF	100 V J 2
C407 L/R	3679332120	Mylar	0.0033 uF	100 V J 2
C408 L/R	3679183120	Mylar	0.018 uF	100 V J 2
C409 L/R	3479247964	Electrolytic AH	4.7 uF	35 V M 2
C410 L/R	3479210071	Electrolytic SA	10 uF	50 V M 2
C411 L/R	3579391130	Ceramic Disc	390 pF	50 V J 2
C412 L/R	3479347041	Electrolytic SG	47 uF	25 V M 2
C413 L/R	3479210064	Electrolytic AH	10 uF	35 V M 2
C414 L/R	3679104297	Mylar	0.1 uF	63 V K 2
C415 L/R	3679823120	Mylar	0.082 uF	100 V J 2
C416 L/R	3479210971	Electrolytic SA	1 uF	50 V M 2
C417-C420	3479310141	Electrolytic SG	100 uF	25 V M 4
C421 L/R	3479210064	Electrolytic AH	10 uF	35 V M 2
C601	3479210071	Electrolytic SA	10 uF	50 V M 1
C602	3479210971	Electrolytic SA	1 uF	50 V M 1
C603/C604	3479347041	Electrolytic SG	47 uF	25 V M 2
C607	3438147312	AC-310-301G47335R5		M 1
C615-C618	3479347041	Electrolytic SG	47 uF	25 V M 4

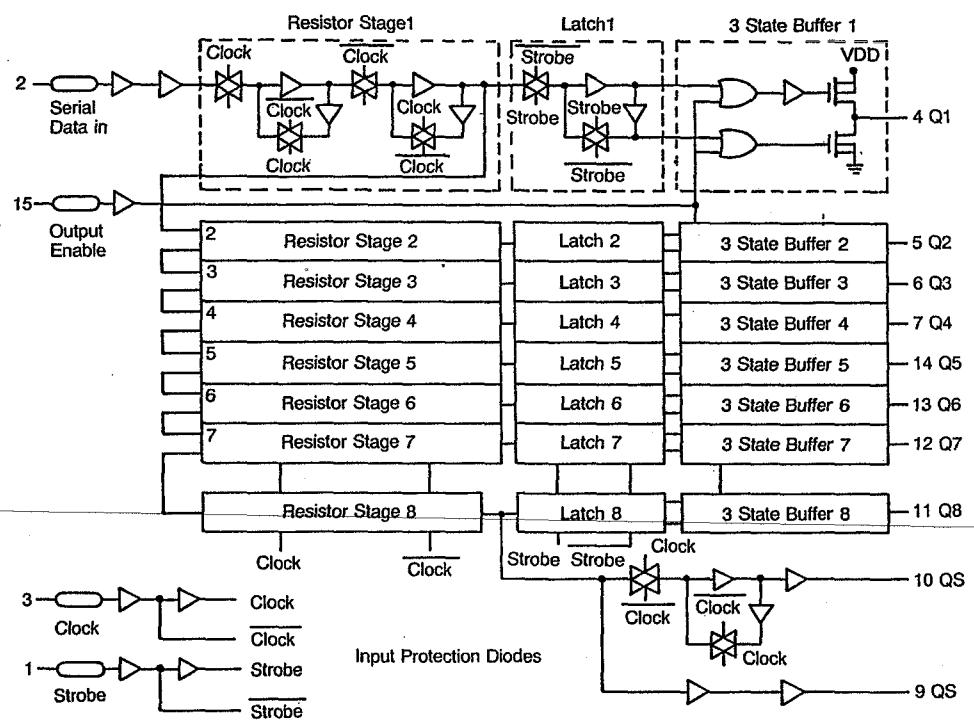
Ref. No.	Parts No.	Description	Q'ty	Version
CNT401	435208458342	Lead Ass'y 8P 450 mm	1	
CNT402	435204458345	Lead Ass'y 4P 450 mm	1	
CNT403	436204453132	Lead Ass'y 4P 450 mm	1	
CNT602	436211142182	Lead Ass'y 11P 140 mm	1	
CNT604	436212142132	Lead Ass'y 12P 140 mm	1	
CNT605	436208143132	Lead Ass'y 8P 140 mm	1	
CNT606	436211143132	Lead Ass'y 11P 140 mm	1	
CNT670	436202103132	Lead Ass'y 2P 100 mm	1	
P2	054021010031	Ass'y P.C.B Main	2	
44	3208064810	VR Main (50 kAx2)	1	
46	4618008710	SW Selector SRBU2621	1	
52	4438304110	Jack RCA (4P), Gold	1	
53	4438304210	Jack RCA (6P), Gold	3	
IC301-IC306	2168215001	M5220P, OP Amp	7	
IC307	2168017132	LC7821	1	
IC308	2168017139	LC7822, Analog SW	1	
Q301 L/R	2218207106	FET 2SK117Y	2	
Q302 L/R	2218207106	FET 2SK117Y	2	
Q303 L/R	2218207106	FET 2SK117Y	2	
Q304 L/R	2218207106	FET 2SK117Y	2	
Q305 L/R	2218207106	FET 2SK117Y	2	
Q306 L/R	2218207106	FET 2SK117Y	2	
Q313-Q322	2208622109	DTC144E	10	
D301	2058322101	1N4148, Switching	1	
D302/D303	2058599127	Zener, 18 V	2	
D304-D307	2058322101	1N4148, Switching	4	
R301 L/R	3069102270	Carbon Film	1 kohm	1/4 W J 2
R302 L/R	3069473270	Carbon Film	47 kohm	1/4 W J 2
R303 L/R	3069102270	Carbon Film	1 kohm	1/4 W J 2
R304 L/R	3069473270	Carbon Film	47 kohm	1/4 W J 2
R305 L/R	3069102270	Carbon Film	1 kohm	1/4 W J 2
R306 L/R	3069473270	Carbon Film	47 kohm	1/4 W J 2
R307 L/R	3069102270	Carbon Film	1 kohm	1/4 W J 2
R308 L/R	3069473270	Carbon Film	47 kohm	1/4 W J 2
R309 L/R	3069102270	Carbon Film	1 kohm	1/4 W J 2
R310 L/R	3069473270	Carbon Film	47 kohm	1/4 W J 2
R311 L/R	3069102270	Carbon Film	1 kohm	1/4 W J 2
R312/R313	3069102270	Carbon Film	1 kohm	1/4 W J 2
R314	3069473270	Carbon Film	47 kohm	1/4 W J 1
R315	3069102270	Carbon Film	1 kohm	1/4 W J 1
R317	3069331270	Carbon Film	330 ohm	1/4 W J 1
R321	3069331270	Carbon Film	330 ohm	1/4 W J 1
R322	3069104270	Carbon Film	100 kohm	1/4 W J 1
R324 L/R	3069106270	Carbon Film	10 Mohm	1/4 W J 2
R325 L/R	3069106270	Carbon Film	10 Mohm	1/4 W J 2
R326 L/R	3069106270	Carbon Film	10 Mohm	1/4 W J 2
R327 L/R	3069106270	Carbon Film	10 Mohm	1/4 W J 2
R328 L/R	3069227270	Carbon Film	2.7 kohm	1/4 W J 2
R329 L/R	3069106270	Carbon Film	10 Mohm	1/4 W J 2
R330 L/R	3069106270	Carbon Film	10 Mohm	1/4 W J 2
R349	3069103270	Carbon Film	10 kohm	1/4 W J 1
R350/R351	3069104270	Carbon Film	100 kohm	1/4 W J 2
R352/R353	3069334270	Carbon Film	330 kohm	1/4 W J 2
R354	3069103270	Carbon Film	10 kohm	1/4 W J 1
R355/R356	3069104270	Carbon Film	100 kohm	1/4 W J 2
R357/R358	3069334270	Carbon Film	330 kohm	1/4 W J 2
R371/R372	3069220270	Carbon Film	22 ohm	1/4 W J 2
R373-R375	3069102270	Carbon Film	1 kohm	1/4 W J 3
R376 L/R	3069103270	Carbon Film	10 kohm	1/4 W J 2
R377 L/R	3069103270	Carbon Film	10 kohm	1/4 W J 2
R378 L/R	3069103270	Carbon Film	10 kohm	1/4 W J 2
R379 L/R	3069103270	Carbon Film	10 kohm	1/4 W J 2
C301 L/R	3579101130	Ceramic Disc	100 pF	50 V J 2
C302 L/R	3579101130	Ceramic Disc	100 pF	50 V J 2

Ref. No.	Parts No.	Description	Q'ty	Version	Ref. No.	Parts No.	Description	Q'ty	Version			
C303 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2	F807	△ 5508302035	Fuse, TL 1 A	250 V	1	D
C304 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2		△ 5508202030	Fuse, NB, 1 A	250 V	1	Dom
C305 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2	F808	△ 5508301134	Fuse, TL, 0.2 A	250 V	1	D
C306 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2		△ 5508201230	Fuse, NB, 250 mA	250 V	1	Dom
C307 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2	F811	△ 5508302035	Fuse, TL 1 A	250 V	1	D
C308 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2		△ 5508202230	Fuse, NB, 1.5 A	250 V	1	Dom
C309 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2	F812	△ 5508302035	Fuse, TL 1 A	250 V	1	D
C310 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2		△ 5508202230	Fuse, NB, 1.5 A	250 V	1	Dom
C312 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2	4255001010	Clip Fuse, PFC5000-0202			16	
C313 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2	CNT101	4428516310	Wafer 4P		1	
C314 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2	CNT601	4428516110	Wafer 2P		1	
C315 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2	CNT602	4428517010	Wafer 11P		1	
C316 L/R	3579101130	Ceramic Disc	100 pF	50 V	J	2	CNT701	436204453132	Lead Ass'y 4P 450 mm		1	
C317/C318	3479322141	Electrolytic SG	22 uF	25 V	M	2	CNT707	436203403132	Lead Ass'y 3P 400 mm		1	
C320	3479347041	Electrolytic SG	47 uF	25 V	M	1	CNT801	4428508210	Wafer 2P		1	
C322	3479347041	Electrolytic SG	47 uF	25 V	M	1	CNT803	4428508210	Wafer 2P		1	
C323	3479210971	Electrolytic SA	1 uF	50 V	M	1	P3	4428525860	Wafer AC 1P		1	
C331/C332	3479647870	Electrolytic NP	0.47 uF	50 V	M	2	P4	4428525860	Wafer AC 1P		1	
C335/R336	3579622970	Electrolytic NP	2.2 uF	50 V	M	2	P8	4428525860	Wafer AC 1P		1	
C337	3579101130	Ceramic Disc	100 pF	50 V	J	1	P9	4428525860	Wafer AC 1P		1	
C338 L/R	3479247964	Electrolytic AH	4.7 uF	35 V	M	2	P10	4428525860	Wafer AC 1P		1	
C339 L/R	3479210064	Electrolytic AH	10 uF	35 V	M	2	P17	4428525780	Wafer AC 2P		1	
C340 L/R	3479247964	Electrolytic AH	4.7 uF	35 V	M	2	P18	4428525730	Wafer AC 2P		1	
C341 L/R	3479247964	Electrolytic AH	4.7 uF	35 V	M	2	P19	4428525780	Wafer AC 2P		1	
CNT102	4428516310	Wafer 4P				P20	4428525780	Wafer AC 2P		1		
CNT103	4428516410	Wafer 5P				P21	4428525780	Wafer AC 2P		1		
CNT401	4428516710	Wafer 8P				P23	4428525860	Wafer AC 1P		1		
CNT402	4428516310	Wafer 4P				P24	4228001410	Pin Solder		1		
CNT403	4428516310	Wafer 4P				P25	4228001410	Pin Solder		1		
CNT501	4428517810	Wafer 5P				P3-1 054021010033	Ass'y P.C.B Speaker A					
CNT502	4428516310	Wafer 4P				49	4408106910	Terminal Speaker		2		
CNT608	436202123132	Lead Ass'y 2P 120 mm				Q701-Q706	2208606114	MPSA06, NPN		6		
CNT609	436205303132	Lead Ass'y 5P 300 mm				Q707	2208222105	DTA114YS		1		
P3 054021010032	Ass'y P.C.B Supply					D714-D716	2258128002	1N4003, Rectifier		3		
59	7505206210	H/Sink, Regulator TR.3				RLY701	5518001450	Relay, JC-2AD-DC24V		1		
60	7505206110	H/Sink, Regulator TR.				RLY702	5518001450	Relay, JC-2AD-DC24V		1		
63	4618007710	Voltage Selector			2	RLY703	5528001610	Relay, OSA-SS-224DM3		1		
IC801	2168601109	GD7824, Regulator				L501 L/R	2648601470	Coil Inductor 50uH		2		
IC802	2168609103	GD7924, Regulator				R542 L/R	3029100572	Metal Film 10 ohm 2 W J		2		
IC803	2168601105	GD7815, Regulator				R543 L/R	3029100472	Metal Film 10 ohm 1 W J		2		
IC804	2168601111	GL7915, Regulator				R709 L/R	3069106270	Carbon Film 10 Mohm 1/4 W J		2		
IC805	2168601110	GD7806, Regulator				R713 L/R	3069104270	Carbon Film 100 kohm 1/4 W J		2		
Q801	2208608104	KTC1815/BKTC3198, NPN Silicon				R728	3069472270	Carbon Film 4.7 kohm 1/4 W J		1		
D809-D825	2258128002	1N4003, Rectifier				R729	3069473270	Carbon Film 47 kohm 1/4 W J		1		
RLY801	5528001640	Relay, OSA-SS-112DM8				R730	3069103270	Carbon Film 10 kohm 1/4 W J		1		
X-FOR803	△ 2828090901	ST/BY Transformer				R731-R734	3069332270	Carbon Film 3.3 kohm 1/4 W J		14		
	△ 2828099491	ST/BY Transformer			Dom	R738	3069332270	Carbon Film 3.3 kohm 1/4 W J		1		
R803/R804	3029220472	Metal Film 22 ohm 1 W J	2			R741	3069104270	Carbon Film 100 kohm 1/4 W J		1		
R805/R806	3029100472	Metal Film 10 ohm 1 W J	2			R742	3069103270	Carbon Film 10 kohm 1/4 W J		1		
R807	3069472970	Carbon Film 4.7 kohm 1/4 W J	1			C524 L/R	3679104297	Mylar 0.1 uF 63 V K		2		
C801/C802	3549472410	Ceramic Disc 0.0047 uF 400 V J	2			C525 L/R	3679104297	Mylar 0.1 uF 63 V K		2		
C805/C806	3419510252	Electrolytic AM 1000 uF 100 V M	2			C527 L/R	3579472530	Ceramic Disc 0.0047 uF 50 V Z		2	D	
C807/C808	3409310269	Electrolytic SG 1000 uF 35 V M	2			C528 L/R	3579472530	Ceramic Disc 0.0047 uF 50 V Z		2	D	
C809/C810	3479347041	Electrolytic SG 47 uF 15 V M	2			C533 L/R	3579472530	Ceramic Disc 0.0047 uF 50 V Z		2	D	
C811/C812	3409347169	Electrolytic SA 470 uF 35 V M	2			CNT701	4428525540	Wafer 4P		1		
C813/C814	3479210071	Electrolytic SA 10 uF 50 V M	2			CNT702	4428525520	Wafer 2P		1		
C815	3409347139	Electrolytic SG 470 uF 16 V M	1			CNT703	4428525550	Wafer 5P		1		
C816/C817	3479210071	Electrolytic SA 10 uF 50 V M	2			CNT708	436204603132	Lead Ass'y 4P 600 mm		1		
F803	△ 5508302735	Fuse, TL 3.15 A 250 V	1			CNT713	4428509000	Wafer 9P		1		
	△ 5508203230	Fuse, NB 6.3 A 250 V	1			PB507 L/R	6165141430	Power Bend (C)		2		
F804	△ 5508202830	Fuse, NB 3.5 A 250 V	1			PB508 L/R	6165141410	Power Bend (A)		2		
F805	△ 5508202830	Fuse, NB 3.5 A 250 V	1			PB509 L/R	6165141420	Power Bend (B)		2		
F806	△ 5508302035	Fuse, TL 1 A 250 V	1			P3-2 054021010034	Ass'y P.C.B Speaker B					
	△ 5508202030	Fuse, NB, 1 A 250 V	1									

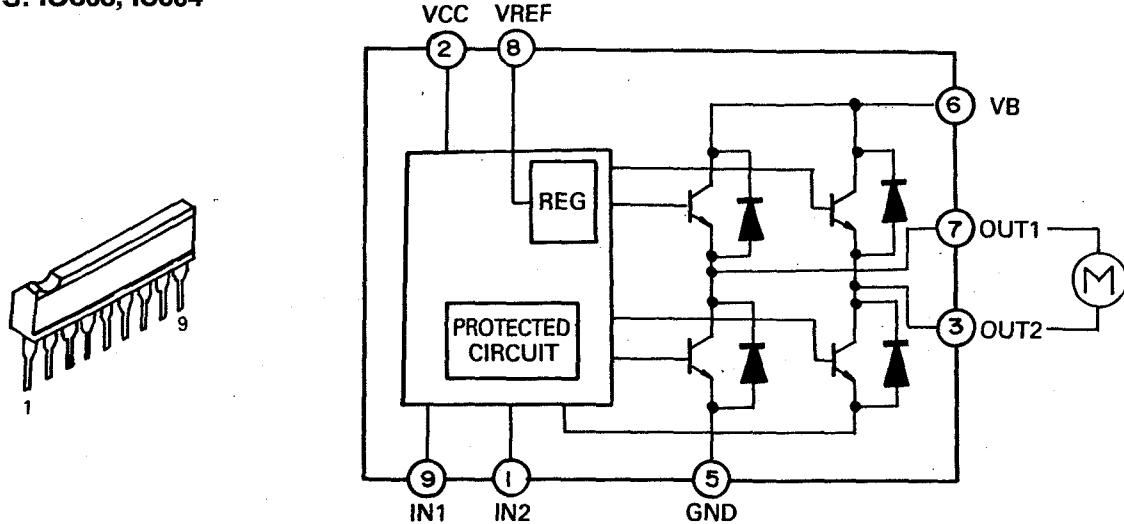
Ref. No.	Parts No.	Description	Q'ty	Version	Ref. No.	Parts No.	Description	Q'ty	Version
IC701	2168000113	IC, KA324	1		P15L	4359076021	Lead Ass'y 1P 210 mm	1	
D704-D706	2058322101	1N4148, Switching	3		P27	4359175212	Lead Ass'y 1P 120 mm	1	
D707	2258599116	Zener, UZ 12.0BSC	1		P28	4359175614	Lead Ass'y 1P 140 mm	1	
D708-D711	2058322101	1N4148, Switching	5		P26	4359775012	Lead Ass'y 1P 120 mm	1	
D713	2058322101	1N4148, Switching	1		P-8	4359794010	Lead Ass'y 1P 100 mm	1	
D718	2058322101	1N4148, Switching	1		P-23	4359794034	Lead Ass'y 1P 340 mm	1	
D719L/R	2058322101	1N4148, Switching	2			4359774026	Lead Ass'y 1P 260 mm	1	
D720	2058322101	1N4148, Switching	1			052438000180	Ass'y Posistor, 180 mm	1	
R710/R711	3069332270	Carbon Film 3.3 kohm 1/4 W J	2			052438000280	Ass'y Posistor, 280 mm	1	
R712	3069103270	Carbon Film 10 kohm 1/4 W J	1			052438000400	Ass'y Posistor, 400 mm	1	
R714	3069123270	Carbon Film 12 kohm 1/4 W J	1			6165144410	Power Bend (D)	1	
R715	3069109270	Carbon Film 1 ohm 1/4 W J	1		054021010040 Ass'y P.C.B Commander				
R716	3069471270	Carbon Film 470 ohm 1/4 W J	1		IC1	2138013122	CPU6122G-002	1	
R717	3069334270	Carbon Film 330 kohm 1/4 W J	1		Q1	2208606112	KTD1302, NPN	1	
R718-R720	3069104270	Carbon Film 100 kohm 1/4 W J	3		D1	2408001100	Diode, EL2	1	
R721	3069913270	Carbon Film 91 kohm 1/4 W J	1		SENSOR	3938001001	Resonator, CSB455E	1	
R722	3069153270	Carbon Film 15 kohm 1/4 W J	1		R1	3069229970	Carbon Film 2.2 ohm 1/4 W J	1	
R724	3069222270	Carbon Film 2.2 kohm 1/4 W J	1		R2-R6	3069224270	Carbon Film 220 kohm 1/4 W J	4	
R726	3069222270	Carbon Film 2.2 kohm 1/4 W J	1		C1/C2	3519101935	Ceramic Tubular 100 pF 50 V J	2	
R739	3069101270	Carbon Film 100 ohm 1/4 W J	1		C3	3479347041	Electrolytic SG 47 uF 25 V M	1	
R740	3069101270	Carbon Film 100 ohm 1/4 W J	1						
C701/C702	3479347041	Electrolytic SG 47 uF 25 V M	2						
C703	3479233971	Electrolytic SA 3.3 uF 50 V M	1						
C704	3479322121	Electrolytic SG 220 uF 10 V M	1						
CNT705	4428525520	Wafer 2P	1						
CNT706	4428525520	Wafer 2P	1						
CNT707	4425525530	Wafer 3P	1						
CNT709	4428503810	Wafer 3P	1						
CNT710	4428524810	Wafer 6P	1						
CNT711	4428524810	Wafer 6P	1						
SLT701	4119102125	Wire Slat 2P 120 mm	1						
P1-3 054021010030 Ass'y P.C.B Volume Indicator									
LED612	2308220142	LED, SLH-34K-3	1						
LED613	2308220142	LED, SLH-34K-3	1						
LED614	2308220142	LED, SLH-34K-3	1						
CNT670	4428525520	Wafer 2P	1						
P1-2 054021010029 Ass'y P.C.B Digilink									
54	4438304410	Jack Digilink, Gold	1						
CNT601	436202403132	Lead Ass'y 2P 400 mm	1						
P1-1 054021010028 Ass'y P.C.B Outlet									
48	△ 4448103910	AC Outlet, ABS Black	2	Dom Only					
	△ 4448102810	AC Outlet, ABS Black	1	A,B					
	△ 4448103610	AC Outlet, ABS Black	2	D.					
F801	△ 5508302035	Fuse, T 1 A 250 V	1						
F802	△ 5508302035	Fuse, T 1 A 250 V	1						
P17	4358880240	Lead Ass'y 2P 400 mm	1						
	4255001010	Clip Fuse, PFC5000-0202	4						
P4-4 054021010039 Ass'y P.C.B Bridge Diode									
D801	△ 2058100139	Diode Bridge KBPC-2504	1						
C820/C821	3069334120	Carbon Film 330 kohm 1/4 W J	2						
P22	4359784017	Lead Ass'y 1P 170 mm	1						
Others									
C803	△ 3419727342	Electrolytic AM 27000 uF 80 V M	1						
C804	△ 3419727342	Electrolytic AM 27000 uF 80 V M	1						
X-FOR1	△ 2828000281	Power Transformer A, 230 V 50 Hz	1						
X-FOR2	△ 2828000291	Power Transformer B, 230 V 50 Hz	1						
	△ 2828000251	Power Transformer A, 110/220 V 60 Hz	1						
	△ 2828000261	Power Transformer B, 110/220 V 60 Hz	1						
	△ 2828009471	Power Transformer A, 220 V 60 Hz	1						
	△ 2828009481	Power Transformer B, 220 V 60 Hz	1						
P15R	4359076026	Lead Ass'y 1P 260 mm	1						

IC'S LEAD IDENTIFICATION & INTERNAL DIAGRAM

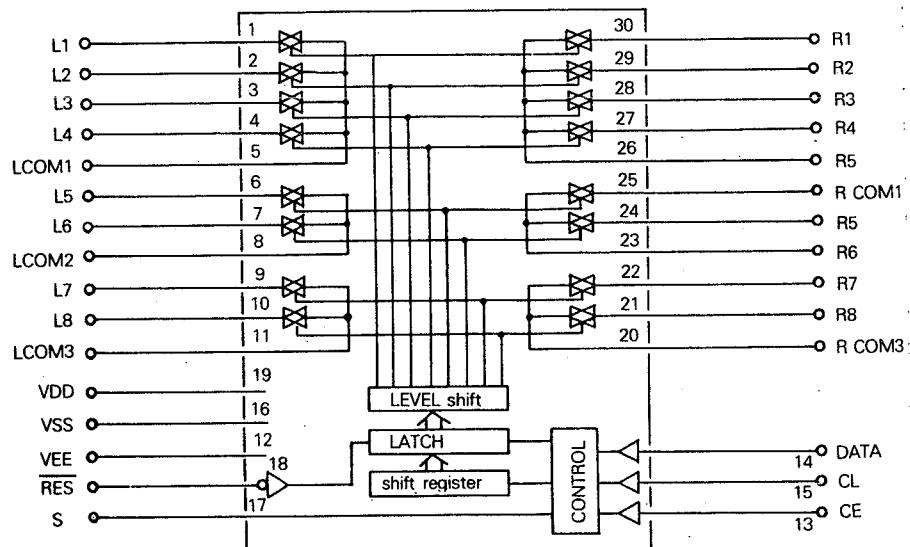
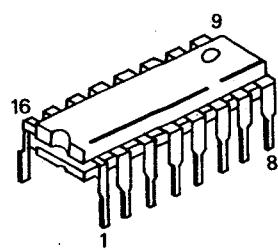
MC14094: IC602



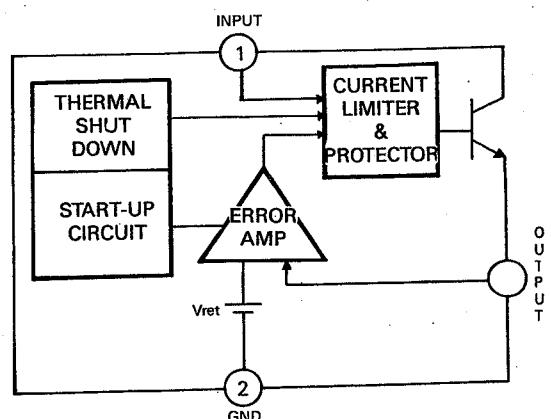
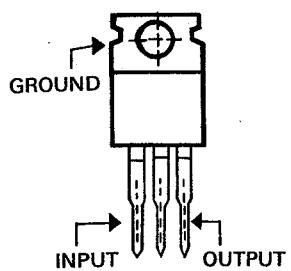
TA7291S: IC603, IC604



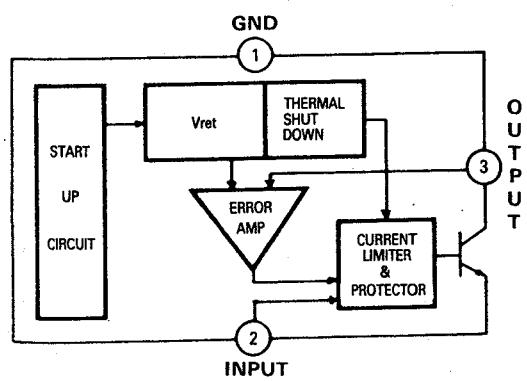
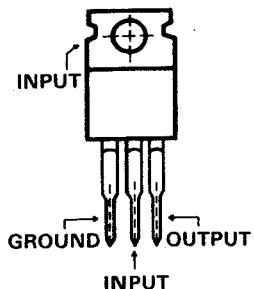
LC7821: IC301



GD78XX: IC801, 803, 805

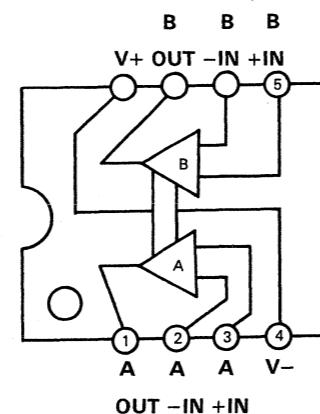
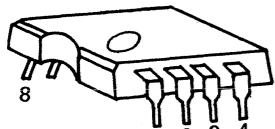


GA79XX: IC802, 804

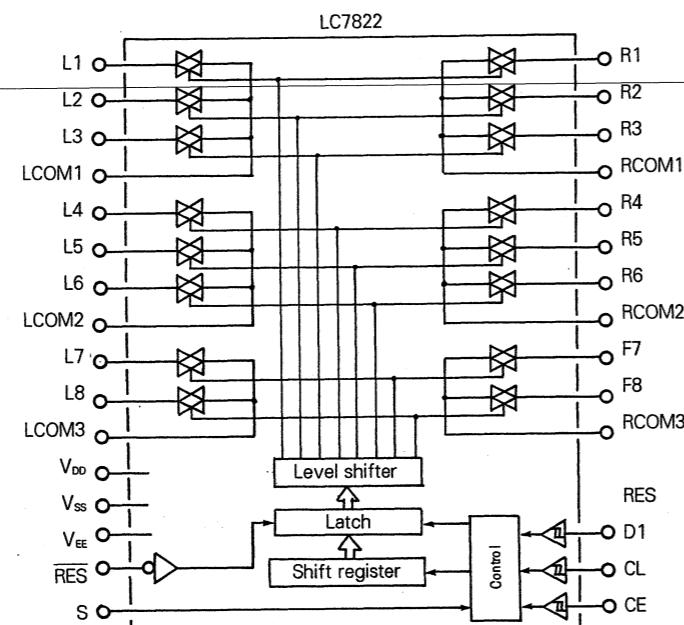
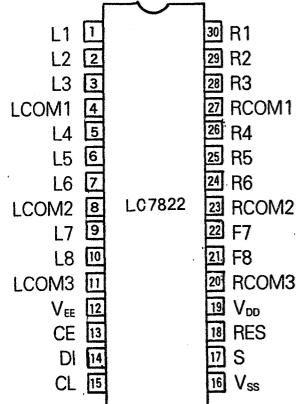


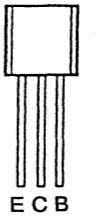
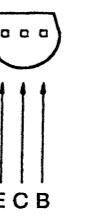
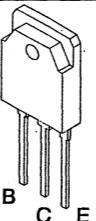
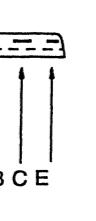
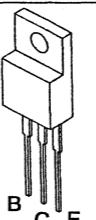
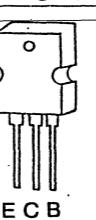
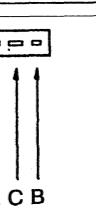
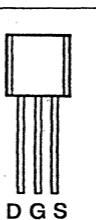
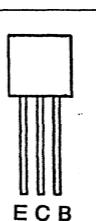
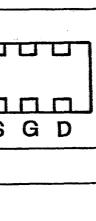
TRANSISTORS LEAD IDENTIFICATION

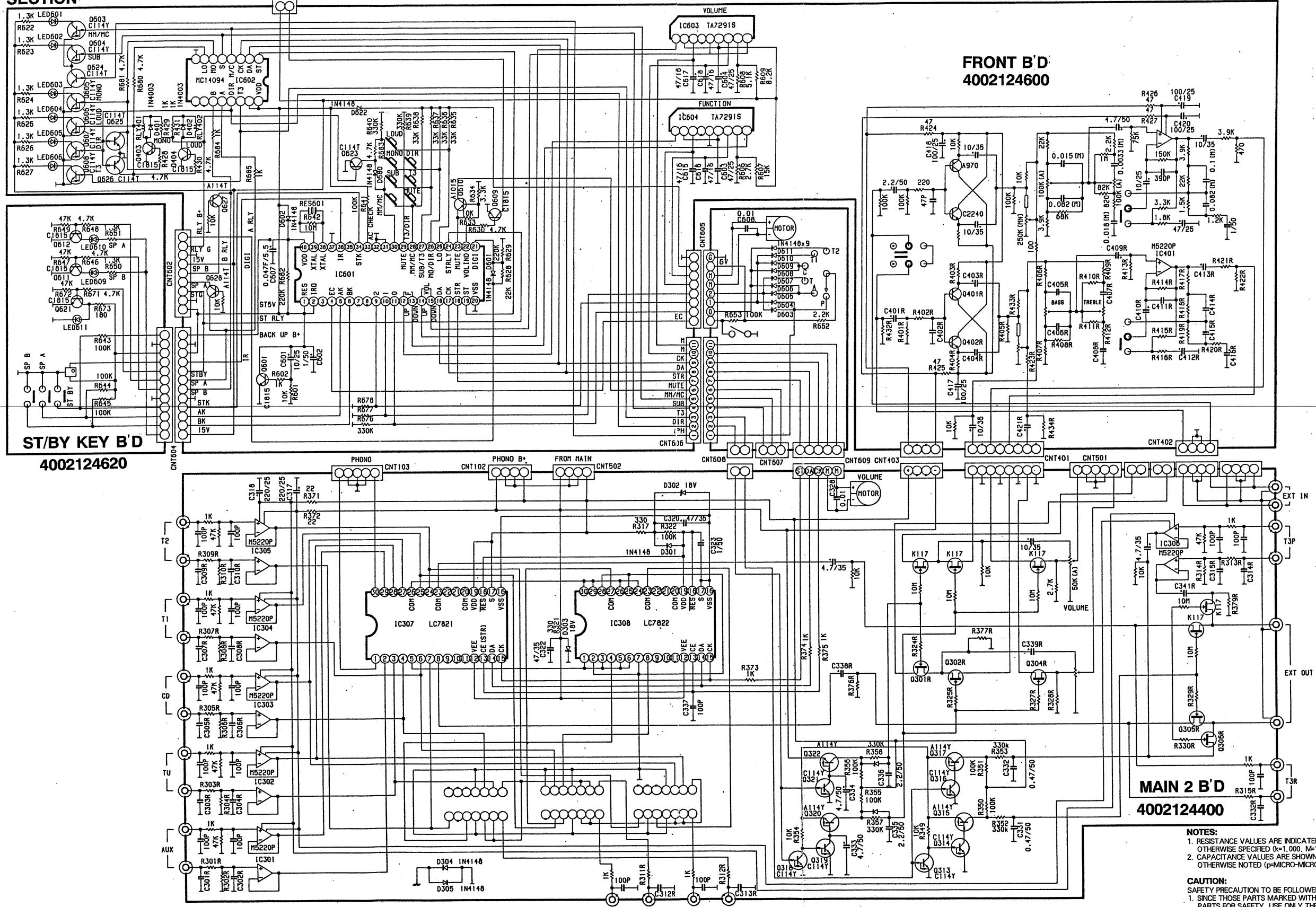
M522OP: IC101, 102, 201, 401
301, 302, 303, 304, 305, 306



LC7822: IC308



Transistor	Front View	Bottom View
2SC3329GR 2SA1316GR 2SC1815 / 2SC3198 KTD1302 KTC2235 KTA970 KTA949 KTC2229		
2SA1386A-Y 2SC3519A-Y		
2SA1859A-Y 2SC4883A-Y		
2SC4137		
2SK117Y		
DTC114TS DTC114YS DTC144E		
2SK332F		
TERMINAL NAME		
B → BASE S → SOURCE C → COLLECTOR G → GATE E → Emitter D → DRAIN		



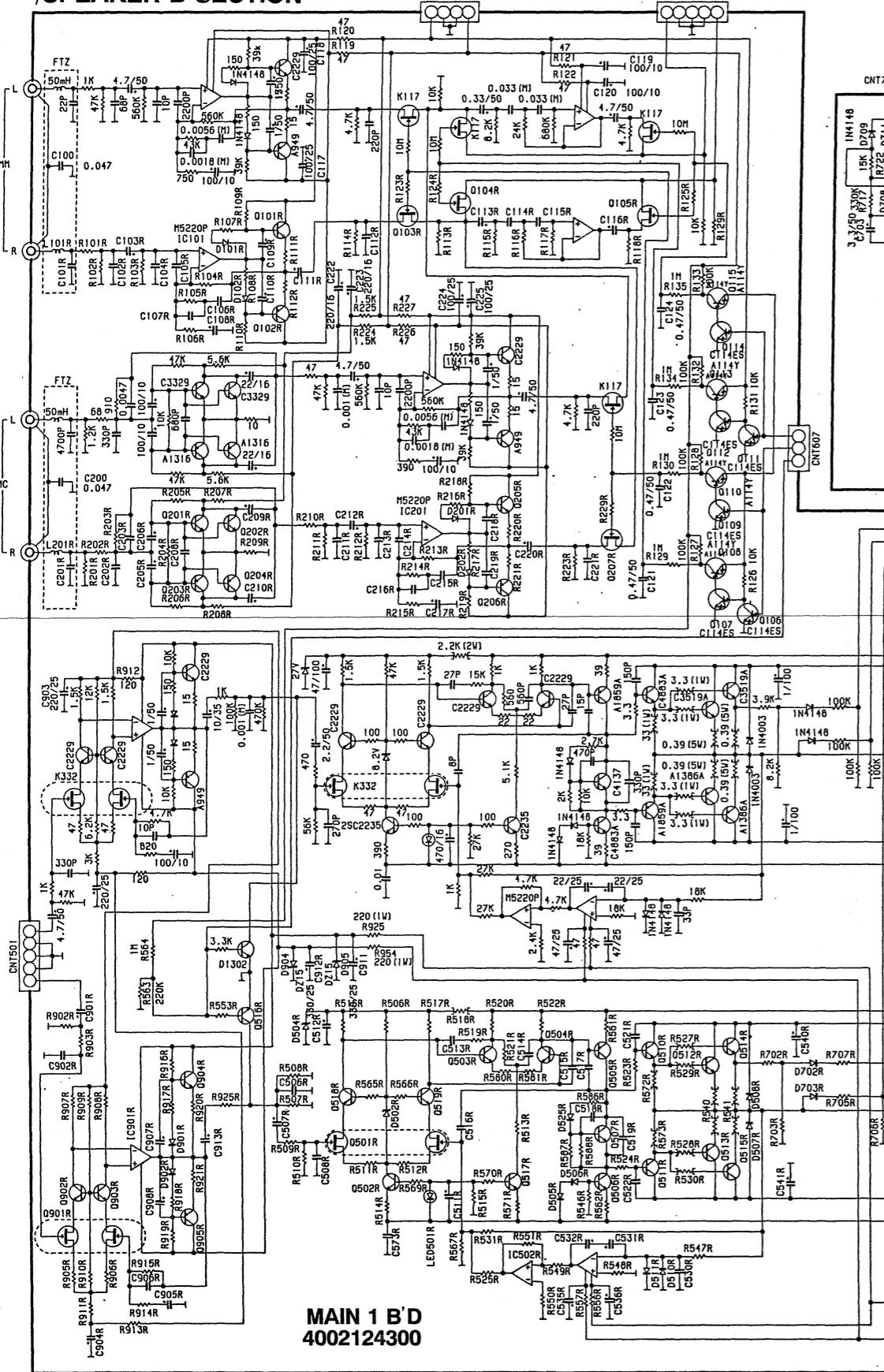
NOTES:

1. RESISTANCE VALUES ARE INDICATED IN ohms UNLESS OTHERWISE SPECIFIED (k =1,000, M =1,000,000)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE SPECIFIED (e.g., 0.001 μ F)

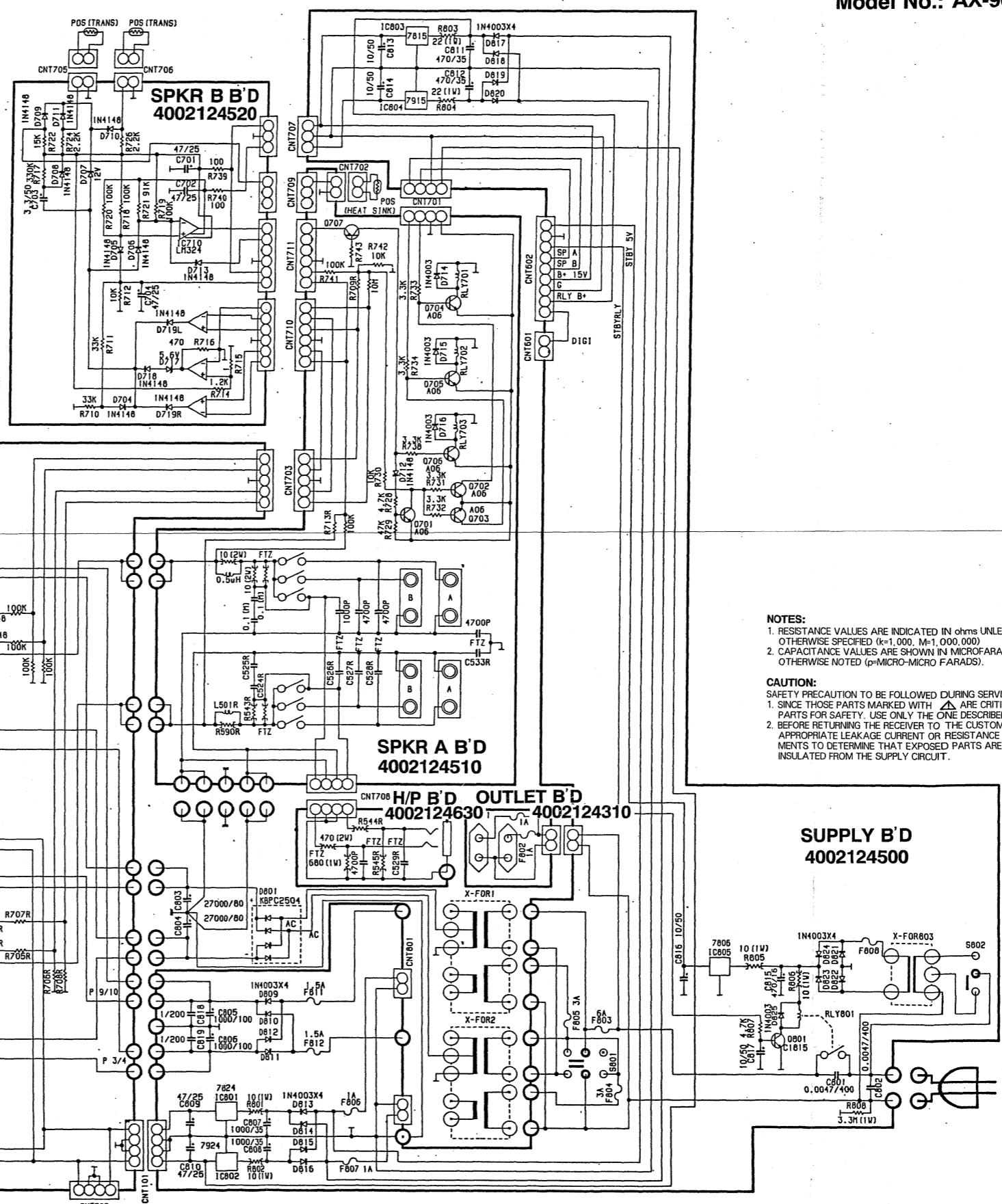
CAUTION:
SAFETY PRECAUTION TO BE FOLLOWED DURING SERVICING.

1. SINCE THOSE PARTS MARKED WITH Δ ARE CRITICAL
PARTS FOR SAFETY, USE ONLY THE ONE DESCRIBED IN THE PARTS LIST.
2. BEFORE RETURNING THE RECEIVER TO THE CUSTOMER, MAKE
APPROPRIATE LEAKAGE CURRENT OR RESISTANCE MEASURE-
MENTS TO DETERMINE THAT EXPOSED PARTS ARE PROPERLY
INSULATED FROM THE SURFACE CIRCUIT.

MAIN1/SUPPLY/SPEAKER A /SPEAKER B SECTION



MAIN 1 B'D
4002124300



Model No.: AX-9030R/9035R

**SUPPLY B'D
4002124500**

NOTES:

1. RESISTANCE VALUES ARE INDICATED IN ohms UNLESS OTHERWISE SPECIFIED ($\times 1,000$, $M=1,000,000$)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED (μ =MICRO-MICRO FARADS).

CAUTION:

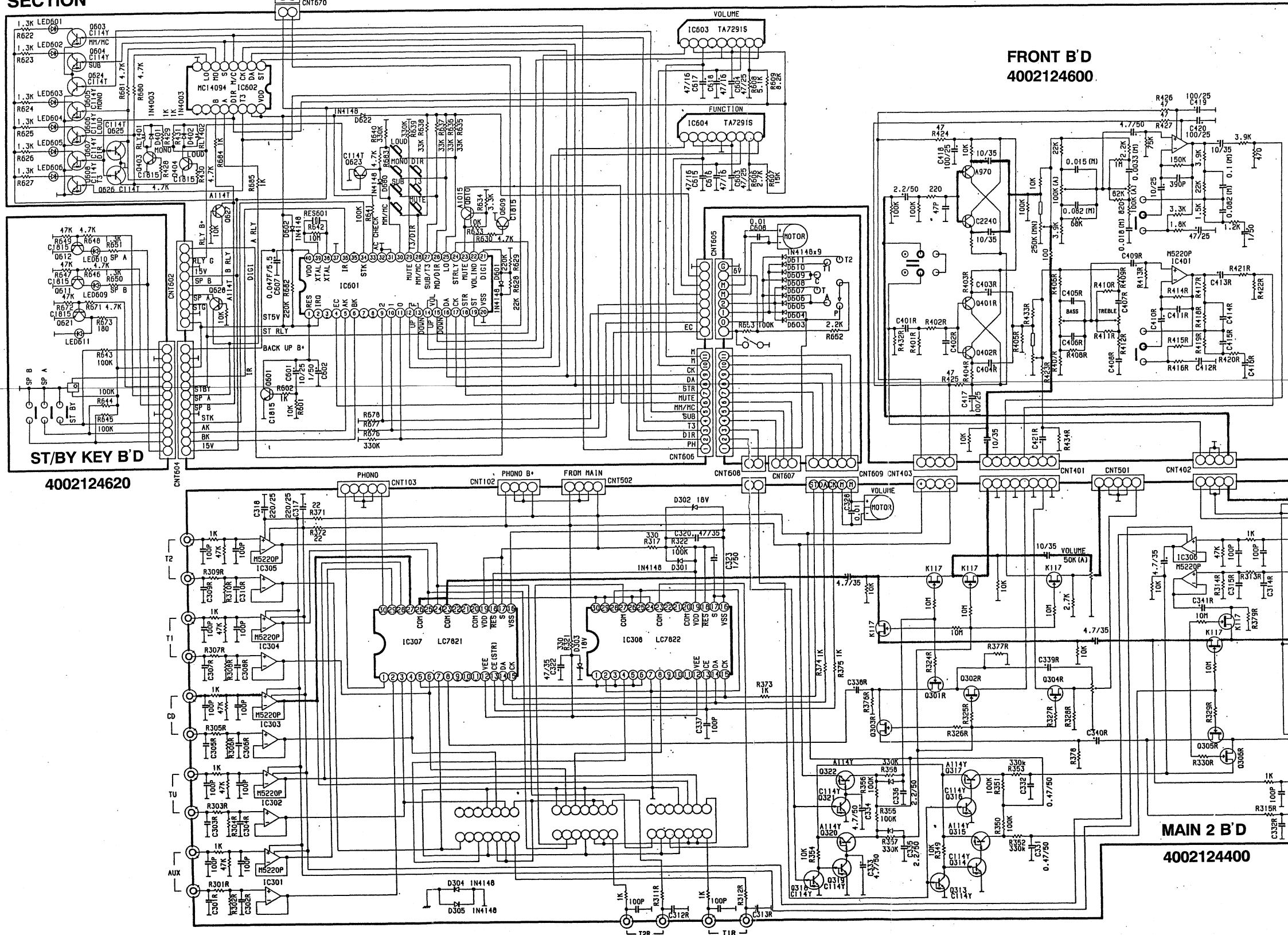
SAFETY PRECAUTION TO BE FOLLOWED DURING SERVICING.

1. SINCE THOSE PARTS MARKED WITH  ARE CRITICAL PARTS FOR SAFETY, USE ONLY THE ONE DESCRIBED IN THE PARTS LIST.
2. BEFORE RETURNING THE RECEIVER TO THE CUSTOMER, MAKE APPROPRIATE LEAKAGE CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE PROPERLY INSULATED FROM THE SUPPLY CIRCUIT.

MAIN2/FRONT/ST-BY SECTION

VOL. IND. B'D
4002124330

Model No.: AX-9030R



NOTES:

1. RESISTANCE VALUES ARE INDICATED IN ohms UNLESS OTHERWISE SPECIFIED ($\geq 1,000$, $\geq 1,000,000$)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED (\geq MICRO-MICRO FARADS).

CAUTION: SAFETY PRECAUTION TO BE FOLLOWED DURING SERVICING.

1. SINCE THOSE PARTS MARKED WITH Δ ARE CRITICAL PARTS FOR SAFETY, USE ONLY THE ONE DESCRIBED IN THE PARTS LIST.

2. BEFORE RETURNING THE RECEIVER TO THE CUSTOMER, MAKE APPROPRIATE LEAKAGE CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE PROPERLY INSULATED FROM THE SUPPLY CIRCUIT.